



US Department
Of Transportation
Federal Aviation
Administration

**MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)**

Form Approved
OMB No. 2120-0020
11/30/2007

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR § 43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark N721BS	Serial No. 1516	
	Make Gulfstream Aerospace	Model GIV-X (G400)	Series N/A
2. Owner	Name (As shown on registration certificate) CFS AIR LLC	Address (As shown on registration certificate) 83 WOOSTER HTS STE 503 DANBURY CT 06810-7548	

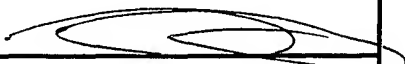
3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		


6. Conformity Statement

A. Agency's Name and Address Gulfstream Aerospace Corporation 5616 Haven St. Las Vegas, NV 89119 USA	B. Kind of Agency		C. Certificate No. FAA CRS LS3R669L Airframe Class 4, Limited Powerplant, Limited Accessory, Limited NDT, Radio Class 1,2,3
	<input type="checkbox"/>	U.S. Certificated Mechanic	
	<input type="checkbox"/>	Foreign Certificated Mechanic	
	<input checked="" type="checkbox"/>	Certificated Repair Station	
	<input type="checkbox"/>	Certificated Maintenance Organization	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual Artor Nazzari Airworthiness Inspector 11/02/2018 
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7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the federal Aviation Administration and is <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Rejected					
BY	FAA Flt. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport	
	FAA Designee	<input checked="" type="checkbox"/> Repair Station	Inspection Authorization	Other (Specify)	
Certificate or Designation No. FAA CRS LS3R669L		Signature/Date of Authorized Individual Artor Nazzari Airworthiness Inspector 11/02/2018 			

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished:

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

MODEL: GIV-X (G400)

ACTT: 6,761.4

SERIAL NO.: 1516

ACTL: 2,488

TAIL NO.: N721BS

DATE BEGUN: 10/01/2018

WORK ORDER NO.: SC11736

DATE COMPLETED: 11/02/2018

The following system was installed per the Supplemental Type Certificate shown. The flight manual supplement was added to the airplane flight manual as required.

<u>ITEM SYSTEM</u>	<u>ORIGINAL STC</u>	<u>Original Certification Data</u>	<u>AFMS</u>
1. Future Air Navigation System (FANS) -1/A+ (GAC) Customer Engineering DWG List-Electrical Optional Cockpit Printer is installed Optional Cockpit Voice Recorder is installed	ST04036AT-D	IL CE414068001 (-503) DL CE414968306	CE41406M001
2. Enhanced Surveillance Flight ID System (GAC) with Collins Radio Tuning Units (RTU)	ST03256AT-D	IL CE411268003 (-503)	CE41126M006

For maintenance requirements and Instructions for Continued Airworthiness in accordance with the 14 CFR Part 25.1529, consult the Gulfstream Aerospace Corporation G-IV (G400) Maintenance Manuals, Completion Center Wiring Diagram Manual or below Gulfstream Aerospace Corporation document no's.:

<u>ITEM SYSTEM</u>	<u>ORIGINAL STC</u>	<u>DOCUMENT NO.</u>
1. Future Air Navigation System (FANS) -1/A+	ST04036AT-D	CE41406A001
2. Enhanced Surveillance Flight ID System (GAC) with Collins Radio Tuning Units (RTU)	ST03256AT-D	CE41126A003

The aircraft's weight and balance / equipment list has been revised. Reference Gulfstream Aerospace Corporation Weight and Balance Report no. G-IV-X (G400) # S/N 1516 N721BS LAS SC11736 dated November 2, 2018.

The available electrical loads have been reviewed and it was determined that the modifications listed above are compatible with the aircraft's electrical capacities.

This system was found not to interfere with other existing onboard systems.

THE END

☐ Additional Sheets Are Attached



United States of America
Department of Transportation
Federal Aviation Administration
Supplemental Type Certificate

Number: ST04036AT-D

This certificate issued to: Gulfstream Aerospace Corporation
500 Gulfstream Road
Savannah, GA 31408

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations.

Original Product - Type Certificate Number:
A12EA

Make: Gulfstream
Model: G-IV

Description of Type Design Change:

Installation of a Future Air Navigation System (FANS) - I/A+ (AFN, CPDLC, ADS-C) functionality with data link capability in accordance with Gulfstream Aerospace Corporation Index List CE41 4068001, Revision B, dated March 28, 2016, or later FAA approved revision.

The Airplane Flight Manual Supplement, CE41 406M001, Revision "-", dated March 28, 2016, or later, FAA approved revision is required and must be carried in the aircraft on all flights.

The Instructions for Continued Airworthiness, CE41 406A001, Revision A, dated January 11, 2016, or later, FAA accepted revision must be available to the operator at the time of installation.

Limitations and Conditions:

1. The installer must determine whether this design change is compatible with previously approved modifications.
2. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

(continued on page 3)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, and revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: 5/15/2014

Date reissued:

Date of issuance: 3/28/2016

Date amended:

GULFSTREAM authorizes the use of this
STC for Aircraft Serial No 1516
Authorized by Morgan E. Smiley
Date 09/13/2018

By direction of the Administrator

Signature

Title William S. Whitton, Jr.
ODA Lead Administrator, ODA-511131-CE
Gulfstream Aerospace Corporation

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. This certificate may be transferred or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).

United States of America
Department of Transportation -- Federal Aviation Administration

Supplemental Type Certificate

Number ST03256AT-D

This certificate issued to Gulfstream Aerospace Corporation
P.O. Box 2206
Savannah, Georgia 31402-2206

certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations.

Original Product--Type Certificate Number:	A12EA	GULFSTREAM authorizes the use of this
		STC for Aircraft Serial No <u>1516</u>
Make:	Gulfstream	Authorized by <u>Morgan E. Smiley</u>
Model:	G-IV	Date <u>09/13/2018</u>

Description of Type Design Change: Installation of an Enhanced Surveillance Flight Identification System with Collins Radio Tuning Units (RTU) in accordance with Gulfstream Aerospace Corporation Index List CE411268003, Revision D, dated November 09, 2006, or later FAA approved revision. FAA approved Airplane Flight Manual Supplement, CE41126M006, Revision B, dated November 10, 2006, or later FAA approved revision (-501 Configuration) is required. Airplane Flight Manual Supplement, CE41126M011, Initial Release, dated November 10, 2006, or later FAA approved revision (-503 Configuration) is required.

Limitations and Conditions: Compatibility of this design change with previously approved modifications must be determined by the installer. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application : April 04, 2006

Date reissued :

Date of issuance : July 26, 2006

Date amended: November 10, 2006



By direction of the Administrator

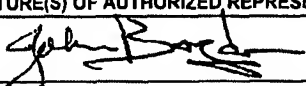
[Signature]
(Signature)

for Jose Mora-Vargas
DAS Administrator
DAS-511131-CE

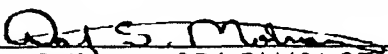
(Title)

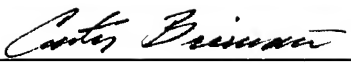
Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

CERT0300413

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS			FAA Project No. SD-06-2017-0008	
AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION				
MAKE:	MODEL NO.	TYPE (Aircraft, Engine, Propeller, etc.):	NAME of APPLICANT / AUTHORIZATION No.:	
Gulfstream	G-IV	Aircraft	Gulfstream Aerospace Corporation ODA-511131-CE	
LIST OF DATA				
IDENTIFICATION	TITLE			
CE41 4068001, Rev G, Date: 05-22-17	Index List – FANS 1/A+ in a G-IV (STC) <div style="text-align: center;">----- END OF DATA -----</div> NOTES: 1) This approval is only for Engineering design data and is not installation approval. 2) The Electrical Systems aspects only of the above listed data are approved herein. This 8100-9 supersedes 8100-9 CERT0302413 with signature dated 05-10-17.			
PURPOSE OF DATA In support of an STC Major Design Change for the installation of FANS 1/A+ MkIII CMU in alternate locations on the Gulfstream model G-IV.				
APPLICABLE REQUIREMENTS (List Specific Sections) 14 CFR Part 25.1301(a)(c) Amdt. 25-0				
CERTIFICATION - As directed by the Administrator and in accordance with the conditions and limitations of authorization under 14 CFR, data listed above and on attached sheets numbered <u>None</u> have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards listed.				
<div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Recommend approval of these data <input checked="" type="checkbox"/> Approve these data </div> <div> I (We) Therefore: </div> </div>				
SIGNATURE(S) OF AUTHORIZED REPRESENTATIVE(S)	NAME	CLASSIFICATION(S)	DATE	
 Gulfstream ODA-511131-CE	John Bogden	AR-E-1124, Electrical Systems	06-26-17	

CERT0302412

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS			FAA Project No. SD-06-2017-0008	
AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION				
MAKE GULFSTREAM	MODEL NO. G-IV	TYPE (Aircraft, Engine, Propeller etc.) AIRCRAFT	NAME OF APPLICANT/AUTHORIZATION NO. Gulfstream Aerospace Corporation ODA-511131-CE	
LIST OF DATA				
IDENTIFICATION		TITLE		
CE41 4068001 Revision G Dated 05-22-17		INDEX LIST - FANS-1/A+ IN A G-IV (STC)		
		Reference GAC Report GCD000004395 Compliance Document for design data MOC.		
PURPOSE OF DATA To approve the structural aspects of the engineering design data in support of FAA Project No. SD-06-2017-0008, Installation of a FANS-1A+ System on Gulfstream G-IV airplanes (Multiple STC).				
APPLICABLE REQUIREMENTS (List specific sections) 14 CFR Part 25.601 Amdt. 25-0.				
CERTIFICATION - As directed by the Administrator and in accordance with the conditions and limitations of authorization under 14 CFR, data listed above and on attached sheets numbered _____ None _____ have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards listed. <input type="checkbox"/> Recommend approval of these data I (We) Therefore: <input checked="" type="checkbox"/> Approve these data				
SIGNATURE(S) OF AUTHORIZED REPRESENTATIVE(S)		NAME	CLASSIFICATION(S)	DATE
 Gulfstream ODA-511131-CE		David S. Molnar	AR-E-3021 Structures AR	05-24-17

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS			1. DATE 25 October 2018
AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION			
2. MAKE Gulfstream	3. MODEL NO. G-IV	4. TYPE (Aircraft, Engine, Propeller, etc.) Aircraft	5. NAME OF APPLICANT Gulfstream Dallas
LIST OF DATA			
6. IDENTIFICATION	7. TITLE		
CE414968306 REV: - Date: 10/24/18 _____END_____	CUSTOM ENGINEERING DWG LIST - ELECTRICAL _____END_____		
NOTES: 1) This approval is for engineering design data only and is not an installation approval. It indicates the data listed above demonstrates compliance only with the regulations specified by paragraph and subparagraph listed below as "Applicable Requirements". This form does not constitute FAA approval of all the engineering design data necessary for substantiation of compliance to necessary requirements for the entire alteration/repair. 2) The above data is approved for the electrical/ electronic and avionics design aspects only. This approval does not address the structural aspects of the installation.			
8. PURPOSE OF DATA To support the Electrical Engineering Design Data for the aircraft S/N 1516.			
9. APPLICABLE REQUIREMENTS (List specific sections) 14 CFR 25.1301(a)(b)(c) amdt 0, 25.1309(a) amdt 41, 25.1351(a) amdt 41, 25.1353(a)(b) amdt 42, 25.1357(a)(c) amdt 0, 25.1431(a)(c) amdt 0			
10. CERTIFICATION – Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under 14 CFR Part 183, data listed above and on attached sheets numbered <u>0</u> have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards listed.			
I (We) Therefore <input type="checkbox"/> Recommend approval of these data <input checked="" type="checkbox"/> Approve these data			
11. SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S)	12. DESIGNATION	13. CLASSIFICATION(S)	
Curtis Bierman 	DERT-750023-SW	Systems and Equipment (Electrical)	



US Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

OMB No. 2120-0020
Exp: 5/31/2018

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark N721BS	Serial No. 1516		
	Make GULFSTREAM	Model G-IV	Series N/A	
2. Owner	Name (As shown on registration certificate) CFS AIR LLC		Address (As shown on registration certificate)	
			Address 83 WOOSTER HTS STE 503	
			City DANBURY	State CT
			Zip 06810-7548	Country UNITED STATES

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	GULFSTREAM	(As described in Item 1 above)	1516
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name Duncan Aviation Inc.		<input type="checkbox"/> U. S. Certificated Mechanic	<input type="checkbox"/> Manufacturer
Address 255 East Tropicana Ave. Suite 128		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City Las Vegas	State Nevada	<input checked="" type="checkbox"/> Certificated Repair Station	JG0R164N
Zip 89169	Country United States	<input type="checkbox"/> Certificated Maintenance Organization	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual 5/8/2018
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7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ Approved ☐ Rejected

BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	X Repair Station	Inspection Authorization	

Certificate or Designation No. JG0R164N	Signature/Date of Authorized Individual 5/8/2018
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NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N721BS

May 8, 2018

Nationality and Registration Mark

Date

Installed the following equipment: Gogo Business Aviation AVANCE L5 p/n P34110-002, Axxess Configuration Module p/n P14126, 2 each Dual Directional Antennas p/n P35500, 2 each Terrestrial Modem Antennas p/n P18350-001 and 6 each WiFi antennas p/n P16917-001.

Installed Gogo Business Aviation AVANCE L5 Broadband Internet System with WLAN enabled in accordance with Duncan Aviation STC No. ST01854WI using Duncan Aviation STC Master Document List Document No. CERTDOC-004745 Revision: A FAA-ODA Approved October 6, 2017.

Ground functional checks were performed using appropriate sections of the AVANCE L5 General Installation Guidance Manual p/n D24734 Revision: D dated March 16, 2018.

A copy of the Airplane Flight Manual Supplement (AFMS), Duncan Aviation Document No. CERTDOC-004743 Revision: A dated October 6, 2017 was provided to the operator.

Refer to Duncan Aviation Document No. 180427002 Revision: A for Electrical Load Analysis Amendment.

A copy of the Instructions For Continued Airworthiness, Duncan Aviation Document No. CERTDOC-004742 Revision: C dated October 6, 2017 has been provided to the operator for incorporation into the aircraft maintenance/inspection program.

Revised aircraft weight and balance/equipment list to reflect this alteration.

This alteration was performed on Duncan Aviation Work Order No. 5QJJA.

-----END-----

☐ Additional Sheets Are Attached



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Federal Aviation
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MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

OMB No. 2120-0020
Exp: 5/31/2018

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark N721BS	Serial No. 1516		
	Make GULFSTREAM	Model G-IV	Series N/A	
2. Owner	Name (As shown on registration certificate) CFS AIR LLC		Address (As shown on registration certificate)	
			Address 83 WOOSTER HTS STE 503	
			City DANBURY	State CT
			Zip 06810-7548	Country UNITED STATES


3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	GULFSTREAM	(As described in Item 1 above)	1516
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement


A. Agency's Name and Address		B. Kind of Agency		C. Certificate No. JG0R164N
Name Duncan Aviation Inc.		<input type="checkbox"/> U. S. Certified Mechanic	<input type="checkbox"/> Manufacturer	
Address 255 East Tropicana Ave. Suite 128		<input type="checkbox"/> Foreign Certified Mechanic		
City Las Vegas State Nevada		<input checked="" type="checkbox"/> Certified Repair Station		
Zip 89169	Country United States	<input type="checkbox"/> Certified Maintenance Organization		

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual  5/8/2018
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7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ Approved ☐ Rejected

BY	FAA Flt. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee <input checked="" type="checkbox"/>	Repair Station	Inspection Authorization	Other (Specify)
Certificate or Designation No. JG0R164N		Signature/Date of Authorized Individual  5/8/2018		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N721BS

May 8, 2018

Nationality and Registration Mark

Date

Removed the following equipment: Magnastar Antenna p/n S65-5365-890L and AFIS Comm Antenna p/n DMC50-22-1.

Installed new #3 VHF Comm antenna p/n CI211-1-L and relocated AFIS antenna in accordance with Duncan Aviation Organization Designation Authorization (ODA) Project No. MR180419004 using Duncan Aviation Inc. Master Document List Document No. 180419004 Revision: A dated May 7, 2018. Reference FAA Form 8100-11 dated May 7, 2018.

A copy of the Instructions For Continued Airworthiness, Duncan Aviation Document No. 180427004 Revision: A has been provided to the operator for incorporation into the aircraft inspection/maintenance program.

No change to aircraft Electrical Load.

Revised aircraft weight and balance/equipment list to reflect this alteration.

This alteration was performed on Duncan Aviation Work Order No. 5QJJA.

-----END-----

☐ Additional Sheets Are Attached



U.S. Department of
Transportation
Federal Aviation
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MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020
11/30/2007

Electronic Tracking Number

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INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act 1958)

1. Aircraft	Nationality and Registration Mark U.S.A. N721BS	Serial No. 1516	
	Make Gulfstream	Model G-IV	Series G-400
2. Owner	Name (As shown on registration certificate) CFS Air LLC	Address (As shown on registration certificate) Address 10 Riverview Dr. City Danbury State CT Zip 06810-6268 Country U.S.A.	

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial Number
<input checked="" type="checkbox"/>	<input type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type _____ Manufacturer _____		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency	
Name Gulfstream Aerospace Corporation		<input type="checkbox"/> U.S. Certificated Mechanic	<input type="checkbox"/> Manufacturer
Address 7440 Aviation Place		<input type="checkbox"/> Foreign Certificated Mechanic	C. Certificate No.
City Dallas	State Texas	<input checked="" type="checkbox"/> Certificated Repair Station	CRS VJ1R560K
Zip 75235	Country U.S.A.	<input type="checkbox"/> Certificated Maintenance Organization	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual Gary Strange September 25, 2013
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7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Flt Standards Inspector	Manufacturer	Maintenance Organization	Person Approved by Canadian Department of Transport
	FAA Designee	X Repair Station	Inspection Authorization	Other (Specify)

Certificate or Designation No. CRS VJ1R560K	Signature/Date of Authorized Individual Gary Strange September 25, 2013
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NOTICE

Weight and balance limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed).

U.S.A N721BS

Nationality and Registration Mark

September 25, 2013

Date

Aircraft Model: G-IV (G-400)

Aircraft Serial No.: 1516

Aircraft Hours: 3,291.7

Aircraft Landings: 1,507

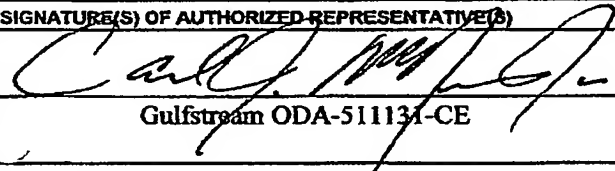
- 1.) Repaired left thrust reverser attach holes #4 and #5 by installing repair bushings P/N SE45054903-11 reference Gulfstream Drawing SE45054903 Rev. E, Engineering Disposition Work Order CS343187, ODA approved (ODA-511131-CE) **8100-9** dated: 09/25/2013 drawing list SE45078112 Rev. R Dated: 9/24/2013, and SE45054903A Rev. - Dated: 9/24/2013. (Reference GAC Dallas Work Order SC35802.2.1)
- 2.) Repaired right thrust reverser attach holes #8 and #10 by installing repair bushings P/N SE45054903-11 reference Gulfstream Drawing SE45054903 Rev. E, Engineering Disposition Work Order CS343187, ODA approved (ODA-511131-CE) **8100-9** dated: 09/25/2013 drawing list SE45078112 Rev. R Dated: 9/24/2013 and SE45054903A Rev. - Dated: 9/24/2013. (Reference GAC Dallas Work Order SC35802.3.1)

-Instructions for Continued Airworthiness (ICA) unchanged.

-Aircraft Weight & Balance unchanged.

-----END-----

☒ Additional Sheets are attached.

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION STATEMENT OF COMPLIANCE WITH AIRWORTHINESS STANDARDS			FAA Project No. TR-07-2013-0014	
AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION				
MAKE: Gulfstream	MODEL NO.: G-IV	TYPE (Aircraft, Engine, Propeller, etc.): Aircraft	NAME OF APPLICANT/AUTHORIZATION NO.: Gulfstream Aerospace Corporation ODA-511131-CE	
LIST OF DATA				
IDENTIFICATION	TITLE			
SE45078112 REV. R Dated: 9/24/2013 SE45054903A REV. — Dated: 9/24/2013	RPR-ATTACH HOLE, AFT COWL (REF SE45054903) STRUCTURAL SUBSTANTIATION FOR SE45054903A <hr/> End of Data			
Notes: 1) The Gulfstream Organization Designation Authorization approves these data. This constitutes FAA approval of the major repair data listed and are not installation data. Valid only for Gulfstream G-IV, S/N 1516. 2) Only the Structures aspects of the data listed above are approved herein. 3) This repair has no impact on the ICA. 4) This FAA approval is provided for the following repairs to Gulfstream G-IV, Serial No 1516 only: SE45078112 -31/-32, Rev. R, RPR-ATTACH HOLE, AFT COWL (REF SE45054903)				
PURPOSE OF DATA Support of Major Repair to Gulfstream G-IV, S/N 1516, to accomplish rework of corrosion on TR mounting holes and install repair bushings.				
APPLICABLE REQUIREMENTS (List specific sections) 14 CFR 25.601 Amdt.25-0; 25.603(a),(b) Amdt.25-46; 25.605(a) Amdt.25-46; 25.609(a) Amdt.25-0; 25.301(a),(b) Amdt.25-23; 25.303 Amdt.25-23; 25.305(a),(b)Amdt.25-54; 25.307(a) Amdt.25-54.				
CERTIFICATION - As directed by the Administrator and in accordance with the conditions and limitations of authorization under 14 CFR, data listed above and on attached sheets numbered <u>NONE</u> have been examined in accordance with established procedures and found to comply with applicable requirements of the Airworthiness Standards listed. <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Recommend approval of these data </div> <div> <input checked="" type="checkbox"/> Approve these data </div> </div>				
I (We) Therefore:				
SIGNATURE(S) OF AUTHORIZED REPRESENTATIVE(S)  Gulfstream ODA-511131-CE	NAME Carl J. McNamee, Jr.	CLASSIFICATION(S) AR-E-1033 Structures	DATE 09/25/2013	

500 Gulfstream Rd. - Savannah, Georgia 31407

Work Order: CS343187 Title: GULFSTREAM - DAL Department: IS TO - WO (GAC)

Customer: GULFSTREAM - DAL

Contact Name:

Status: Open

Address: BILLING ADDRESS

Account Code: GAC35

P.O. #: Prod Warranty

7440 AVIATION PLACE

Target Date: 9/20/2013

Invoice #:

Created: 9/18/2013

Date Closed:

Posted:

Aircraft: G400 1516

Reg. Number: N721BS

Company Name: GAC Dallas

Status: Pri 2

Contact: Randy Ellison/Tim Mamanny

Phone: 214-902-4968

CELL:

E-mail: randy.ellison@gulfstream.com

Cust. Acct. Code: GAC35

P.O. #: Prod. Warranty per Jim Brown

Mx Program: MSG3

Item: 1 RFA Service Engineering G400 Part #: G400 Serial #: 1516

Step: 1.1

Discrepancy: Please evaluate corrosion in left and right thrust reverser attach holes.

Left Thrust Reverser - holes # 2L, 4L, 5L and 11L

Right Thrust Reverser - Holes # 5R, 8R, 10R, AND 11R.

Customer requests continued service until their original engines are received back from mid-life inspection. The aircraft presently has limited down time, and the rental engines are being installed. The aircraft will have more down time when the original engines get re-installed. Request continued service for 120 days or 400 flight hours. See sketches in corridor rfa attachments.

Status: Completed

Resolution: Based on the information you provided, Gulfstream Service Engineering provides the following PRELIMINARY disposition:

- Continued operations with corrosion in the noted holes are not acceptable.
- Ream the subject holes to the minimum diameter which will eliminate corrosion 100%.
- Do not exceed the diameters listed in drawing SE45054903 Tables E and F.
- Document the final diameter for each hole using the identification scheme on the subject drawing. - Also note whether complete corrosion removal resulted for each hole.
- Resubmit this information to Engineering for final disposition.

Emailed dispo. 9/19/13, 11:50am (Winnai)

Signed Off: 9/24/2013 12:56:49PM

By: WINNAI, MARC F-126685

Completed: 9/24/2013 12:56:49PM

By: WINNAI, MARC F-126685

Step: 1.1.1

Description: Engineering Disposition, preliminary: Continued operations with corrosion in the noted holes is not acceptable. Ream the subject holes to the minimum diameter which will eliminate corrosion 100%. Do not exceed the diameters listed in drawing SE45054903 Tables E and F. Document the final diameter for each hole using the identification scheme on the subject drawing. Also note whether complete corrosion removal resulted for each hole. Resubmit this information to Engineering for final disposition.

Status: Completed

Comments/notes:

Signed Off: 9/19/2013 11:17:18AM

By: RIDGDILL, BENJAMIN H-791199

500 Gulfstream Rd. - Savannah, Georgia 31407

Work Order: CS343187

Title: GULFSTREAM - DAL

Department: IS TO - WO (GAC)

Completed: 9/19/2013 11:17:18AM

By: RIDGDILL, BENJAMIN H-791199

Squawk: 1.2

Discrepancy: Customer reply back with results of the reworked done.

I finished reaming the attach holes in the thrust reversers for aircraft s/n 1516. I am sending the forms I recieved from engineering. The RH thrust reverser table has 1L, 2L 3L....etc.. They should be 1R, 2R, 3R...etc., anyways I penciled in the final dimensions and added the correct position. Each T/R only needed 2 each -11 repair bushings, the other holes cleaned up within drawing limits. Thanks for the extra help, we are on a dead line for RTS Monday afternoon late or Tuesday morning, so if we can get the paperwork done before then we would appreciate it.

See RFA folder fro PDF of results.

Status: Completed

Resolution: Engineering Disposition: Repair per drawing SE45054903-1 and -3. Refer to the figures stored here:

G:\Techops\CORRIDOR RFA ATTACHMENTS\G300 & G400\SN_1516\CS343187 TR Attach Holes Corroded

(PDF entitled "1324_001.pdf") for locations od holes being reworked.

This is classified a major rework; form 8100-9 will be provided.

Sent by C. Lespier Ext 10192 9/21/13 5:20PM

Based on the information you provided, Gulfstream Service Engineering provides the following FINAL disposition:

- Repair per drawing SE45054903-1 and -3 in accordance with SE45078112-31/-32 Rev R.

- This is classified a major rework; form 8100-9 will be provided with SE45078112 Rev R.

Sent dispo. 9/24/13, 3:00pm (Winnai)

Signed Off: 9/25/2013 8:55:25AM By: WINNAI, MARC F-126685

Completed: 9/25/2013 8:55:25AM By: WINNAI, MARC F-126685

Step: 1.2.1

Description: Engineering Disposition: Repair per drawing SE45054903-1 and -3 in accordance with SE45078112-31/-32 Rev R.

This is classified a major rework; form 8100-9 will be provided with SE45078112 Rev R.

Status: Completed

Comments/notes:

Signed Off: 9/25/2013 8:34:29AM By: BEECHER, JEFFREY-306632

Completed: 9/25/2013 8:34:29AM By: BEECHER, JEFFREY-306632

* End of Report *



US Department
of Transportation

Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved

OMB No. 2120-0020

For FAA Use Only

Office Identification

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each violation (Section 901 of Federal Aviation Act of 1958).

1. Aircraft	Make GULFSTREAM AEROSPACE	Model G350
	Serial No. 1516	Nationality and Registration Mark N721BS
2. Owner	Name (As shown on registration certificate) CFS AIR LLC	Address (As shown on registration certificate) 44 OLD RIDGEBURY RD DANBURY CT 06810-5107

3. For FAA Use Only

4. Unit Identification


5. Type

Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~				XXX
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement


A. Agency's Name and Address Gulfstream Aerospace Corporation W6365 Discovery Drive Appleton, WI 54914	B. Kind of Agency <input type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input checked="" type="checkbox"/> Certified Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. G1FR100Y
---	--	--

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date 06/25/09	Signature of Authorized Individual Russell Diem 
------------------	--

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

B Y	FAA Flt. Standards Inspector		Manufacturer		Inspection Authorization	Other (Specify)
	FAA Designee	X	Repair Station		Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 06/25/09		Certificate or Designation No. G1FR100Y		Signature of Authorized Individual Russell Diem 		

NOTICE

Weight and balance limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed).

Installed Mod-ATG Window Shades in accordance with **Gulfstream Aerospace Corporation (GAC) Drawing No. CE522160022 REV.-: Dated 04/24/08** – Mod-ATG Window Shade Instl, of which the structural aspects are DER approved by **Thomas A Knott, DERY-40516-CE on FAA form 8110-3, Dated 06/24/09,**
The weight & balance change is negligible.

-----END-----



US Department
Of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020
11/30/2007

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR § 43.9, Part 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark N721BS	Serial No. 1516	
	Make Gulfstream Aerospace	Model G-IV (G400)	Series N/A
2. Owner	Name (As shown on registration certificate) CFS Air LLC		Address (As shown on registration certificate) 44 Old Ridgebury RD. Danbury, Connecticut 06810-5107 United States

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address Gulfstream Aerospace Corporation 4150 Donald Douglas Drive Long Beach, CA 90808 USA	B. Kind of Agency <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"><input type="checkbox"/></td> <td>U.S. Certificated Mechanic</td> <td style="width: 30%;"><input type="checkbox"/></td> <td>Manufacturer</td> </tr> <tr> <td><input type="checkbox"/></td> <td>Foreign Certificated Mechanic</td> <td><input type="checkbox"/></td> <td>C. Certificate No.</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>Certificated Repair Station</td> <td colspan="2" rowspan="2"> FAA CRS EC3R470L Airframe Class 4, Limited Powerplant, Limited Accessory, Radio Class 1,2,3 </td> </tr> <tr> <td><input type="checkbox"/></td> <td>Certificated Maintenance Organization</td> </tr> </table>	<input type="checkbox"/>	U.S. Certificated Mechanic	<input type="checkbox"/>	Manufacturer	<input type="checkbox"/>	Foreign Certificated Mechanic	<input type="checkbox"/>	C. Certificate No.	<input checked="" type="checkbox"/>	Certificated Repair Station	FAA CRS EC3R470L Airframe Class 4, Limited Powerplant, Limited Accessory, Radio Class 1,2,3		<input type="checkbox"/>	Certificated Maintenance Organization
<input type="checkbox"/>	U.S. Certificated Mechanic	<input type="checkbox"/>	Manufacturer												
<input type="checkbox"/>	Foreign Certificated Mechanic	<input type="checkbox"/>	C. Certificate No.												
<input checked="" type="checkbox"/>	Certificated Repair Station	FAA CRS EC3R470L Airframe Class 4, Limited Powerplant, Limited Accessory, Radio Class 1,2,3													
<input type="checkbox"/>	Certificated Maintenance Organization														

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B	<input type="checkbox"/>	Signature/Date of Authorized Individual <div style="display: flex; justify-content: space-between; align-items: center;"> Morris Luis, Airworthiness Inspector <i>Morris A. Luis</i> April 11, 2008 </div>
---	--------------------------	--

7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the federal Aviation Administration and is ☒ Approved ☐ Rejected

BY	FAA Flt. Standards Inspector		Manufacturer		Maintenance Organization		Persons Approved by Canadian Department of Transport
	FAA Designee	<input checked="" type="checkbox"/>	Repair Station		Inspection Authorization		Other (Specify)

Certificate or Designation No. FAA CRS EC3R470L	Signature/Date of Authorized Individual <div style="display: flex; justify-content: space-between; align-items: center;"> Ronald S. Reece, Quality Control Analyst <i>Ronald S. Reece</i> April 11, 2008 </div>
---	---

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished:

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

MODEL: G-IV (G400)

SERIAL NO.: 1516

TAIL NO.: N721BS

WORK ORDER NO.: SC3469

ACTT: 1,474.4

ACTL: 767

DATE BEGUN: March 31, 2008

DATE COMPLETED: April 11, 2008

Installed Aircraft Service Change (ASC) No. 465 'Airborne Auxiliary Power (ATA 49) - Auxiliary Power Unit (APU) 36-150[G] Installation' in accordance with FAA approved engineering drawing no. 1159ASC41465 Rev. '--', (Top Drawing - Auxiliary Power Unit).

- Verified Flight Manual Revision 7 has been incorporation in aircrafts Flight Manual.
- Electrical Load Analyst information contained within Gulfstream engineering wiring diagram no. 1159SB49006 Rev. 'K', 'Wiring Diagram - GIV APU Retrofit' has been provided to the operator.
- Supplemental maintenance information contained within Gulfstream engineering report no. GIV-GER-9963 Rev. 'A', 'Instructions for Continued Airworthiness' has been provided to the operator.

This manufactures service change removes the Honeywell Auxiliary Power Unit P/N 3800062-9-1, model 36-100 (G) and installs a Honeywell P/N 3800826-1, model 36-150 (G) Auxiliary Power Unit.

Aircraft weight and balance / Aircraft equipment list has been revised.

This system found not to interfere with other existing onboard systems.

THE END

☐ Additional Sheets Are Attached



U.S. Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make GULFSTREAM AEROSPACE	Model G-IV
	Serial No. 1516	Nationality and Registration Mark N721BS
2. Owner	Name (As shown on registration certificate) CFS AIR LLC	Address (As shown on registration certificate) 44 OLD RIDGEBURY RD DANBURY, CONNECTICUT 06810-5107

3. For FAA Use Only

The technical data identified herein has been found to comply with applicable airworthiness requirements and is hereby approved for use only on the above described aircraft, subject to conformity inspection by a person authorized by 14 CFR Part 43, Section 43.7. AFM Supplement is compatible with this aircraft.

FSDO CE09
District Office

FEB 20 2007
DATE

Signature of FAA Inspector

4. Unit Identification				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~				X
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Duncan Aviation, Inc. d/b/a Duncan Avionics 255 East Tropicana Avenue, Suite 128 Las Vegas, Nevada 89109	<input type="checkbox"/> U.S. Certificated Mechanic	JG0R164N
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input checked="" type="checkbox"/> Certificated Repair Station	
	<input type="checkbox"/> Manufacturer	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date 2/23/07	Signature of Authorized Individual James Gratson DUNCAN QI 1050
------------------------	---

7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Fit. Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)
	FAA Designee X	Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection 2/23/07		Certificate or Designation No. JG0R164N	Signature of Authorized Individual James Gratson DUNCAN QI 1050	

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Completed the following alteration:

Removed the following Transponder components:

Quantity	Description	Part number
2	TDR-94D Mode S Transponder	622-9210-007

Installed the following Transponder components:

Quantity	Description	Part number
2	TDR-94D SSR Mode S Enhanced Surveillance Transponder	622-9210-207

Electrical aspects of the installation are accomplished in accordance with Duncan Aviation drawings # 070215013 Rev Ø approved on FAA form 8110-3 issued on 02/19/2007.

Utilized existing Transponder antennas, antenna coaxes and bulkhead RF feed through connectors.

Structural aspects of the installation were not changed from the original installation.

Installed FAA approved Airplane Flight Manual Supplement, Duncan Aviation document No. 070215015 into FAA approved Airplane Flight Manual.

Function checked transponders in accordance with Collins Pro Line II Com/Nav/Pulse System Installation Manual CPN 523-0772719, Eight Edition, 7th Revision dated 1/8/07 and Duncan Aviation Ground Test Procedures for TDR94/94D Enhanced Mode-S Transponder, document No. 070217001.

All methods, techniques and practices used conform with AC 43.13-1B Change 1 Chapter 10, Section 2 Para 10-19, Chapter 11 Section 3 Para 11-30 & 11-36, Section 6 Para 11-76 thru 11-78, Section 7 Para 11-85 thru 11-89, Section 10 Para 11-135 thru 11-137, Section 12 Para 11-155 thru 11-158, Section 13 Para 11-167, Section 16 Para 11-205 thru 11-207, Chapter 12 Section 1 Para 12-1 & 12-2, Section 2 Para 12-8, 12-9 & 12-20.

Completed Transponder and altitude encoder tests, and found to be within the limits of 14 CFR Part 43 Appendix F and Section (c) of Appendix E.

Revised aircraft Equipment list.

Instructions for continued airworthiness are identified in Duncan Aviation document no. 070215014.

Installation accomplished under Duncan Aviation, Inc. work order # EF8KA.

-----END-----

☐ Additional Sheets Are Attached

U.S. Department
of Transportation
Federal Aviation
Administration

MAJOR REPAIR AND ALTERATION
(Airframe Powerplant, Propeller, or Appliance)

Form Approval
OMB No. 2120-0020

For FAA Use Only

Office Identification

INSTRUCTIONS. Print or type all entries. See FAR 43.9 FAR 43 Appendix B, and AC43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.U. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make Gulfstream Aerospace	Model G-IV
	Serial No. 1516	Nationality and Registration Marks N721BS
2. Owner	Name (As shown on registration Certificate) CFS Air LLC	Address (As shown on registration certificate) 44 Old Ridgebury Rd Danbury, Ct 06810-5107

3. For FAA Use Only

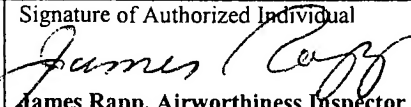
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4. Unit Identification				5. Type	
Unit	Make	Model	Serial no.	Repairs	Alterations
Airframe	~~~~~ (As described in item 1 above) ~~~~~				X
Powerplant					
Propeller					
Appliance	Type				
	Manufacturer				

6. Conformity

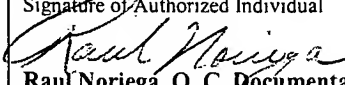
A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Gulfstream Aerospace Corporation 4150 Donald Douglas Drive Long Beach, CA. 90808	<input type="checkbox"/> U.S. Certificated Mechanic	FAA CRS EC3R470L
	<input type="checkbox"/> Foreign Certificated Mechanic	Airframe Class 4, Limited Powerplant,
	<input checked="" type="checkbox"/> Certificated Repair Station	Limited Accessory, Radio Class 1, 2, 3
	<input type="checkbox"/> Manufacturer	Limited NDT

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date September 18, 2006	Signature of Authorized Individual  James Rapp, Airworthiness Inspector
---------------------------------------	--

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Flt. Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)
	FAA Designee	<input checked="" type="checkbox"/> Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection September 18, 2006	Certificate or Designation No. CRS EC3R470L	Signature of Authorized Individual  Raul Noriega, Q. C. Documentation Analyst		

FAA Form 337 (12-88)

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alteration to assure continued conformity with the applicable airworthiness requirements

8. Description of Work Accomplished:

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed).

MODEL: G-IV

ACTT: 1,138.2

SERIAL NO.: 1516

ACTL: 524

TAIL NO.: N721BS

DATE BEGUN: September 16, 2006

WORK ORDER NUMBER: SC1040

DATE COMPLETED: September 18, 2006

Removal of the SKYLink Broad-Band Multi-Link (BBML) High-Speed Data (HSD) equipment (-505 configuration), installed and approved on FAA form 337 dated September 16, 2006, retaining provisions in accordance with the following FAA DER approved data:

IDENTIFICATION

TITLE

CE41 3030021, Rev. 'A'

Wiring Diagram - Satcom HSD Skylink (Provision)

CE41 4290003, Rev. 'A'

Wiring Diagram - LAN Server (BBML) (Provision)

CE41 4300005, Rev. 'A'

Wiring Diagram - Voice Over IP (BBML) (Provision)

- FAA form 8110-3 data approval by FAA DERT-606116-NM, (Systems & Equipment).
- FAA approved Flight Manual Supplement No. CE41 303M000, dated January 20, 2006 is no longer applicable.
- Instructions for Continued Airworthiness contained in Gulfstream Aerospace Corporation report no. GC42 303A002 is no longer applicable.

This modification removes the following major components:

Description	Manufacture	Part Number
Antenna	ARINC	1000009
Antenna Control Unit	ARINC	1007783
AITR	ARINC	1000005
Advance Cabin Server	GAC	ACS-02-001
Wireless Network Access Point	GAC	GC51 4280075-01
Managed Switching Unit	GAC	MSU-01-001

The Wireless Local Area Network (WLAN), installed and approved on FAA form 337 dated September 16, 2006, is retained in accordance with approved Gulfstream Aerospace Corporation Index List GC41 3038003 and STC ST01761LA-D, (-501 configuration).

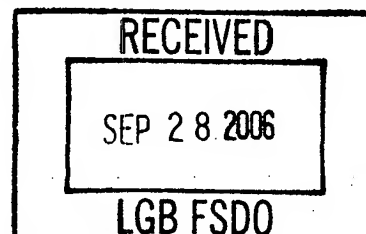
- FAA approved Flight Manual Supplement No. GC41 428M001, dated January 20, 2006 has been issued.
- Instructions for Continued Airworthiness contained in Gulfstream Aerospace Corporation report no. GC42 428A000 has been provided to the operator.

Aircraft weight and balance / equipment list has been revised. Ref. Gulfstream Aerospace Corporation Report No. CE400WR1516, Rev. '-1'.

The impact of this change on aircraft electrical load is contained in Gulfstream Aerospace Corporation Report No. GC41 428E001.

This system found not to interfere with other existing onboard systems.

THE END



☐ Additional Sheets Are Attached

Supplemental Type Certificate

Number ST01761LA-D

This Certificate issued to Gulfstream Aerospace Corporation
4150 Donald Douglas Drive
Long Beach, California 90808

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 25* of the Federal Aviation Regulations. *Certification basis is set forth in Type Certificate Data Sheet TCDS

Original Product Type Certificate Number: A12EA

Make: Gulfstream

Model: G-IV

Description of Type Design Change: Installation of a Wireless Local Area Network (WLAN) (-501 Configuration) or a Wireless Local Area Network (WLAN) with SKYLink Broad-Band Multi-Link (BBML) High-Speed Data (HSD) (-503 or -505 Configurations) in accordance with approved Gulfstream Aerospace Corporation Index List GC413038003 Revision "L", dated September 14, 2006 or later approved revision.

Limitations and Conditions:

FAA Approved Airplane Flight Manual Supplement GC41428M001, original release, dated January 20, 2006 or later FAA approved revision, is required for the Wireless Local Area Network (-501 Configuration) and must be carried in the aircraft on all flights.

FAA Approved Airplane Flight Manual Supplement GC41303M003, original release, dated January 20, 2006 or later FAA approved revision, is required for the Wireless Local Area Network with Broad-Band Multi-Link High Speed Data (-503 Configuration) and must be carried in the aircraft on all flights.

(Continued Page 3)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: June 27, 2005

Date reissued:

Date of issuance: January 20, 2006

Date amended: September 16, 2006



By direction of the Administrator
R. A. Wood
(Signature)

Randall A. Wood
DAS Administrator, DAS-100271-NM
(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Regional Office of the transfer of this Supplemental Type Certificate.

The FAA will reissue the certificate in the name of the transferee and forward it to him.

TRANSFER ENDORSEMENT

Transfer the ownership of the Supplemental Type Certificate Number _____

to *(Name of transferee)* _____

(Address of transferee) _____
(Number and street)

(City, State, and Zip code)

from *(Name of grantor) (Print or type)* _____

(Address of grantor) _____
(Number and street)

(City, State, and Zip code)

Extent of Authority (if licensing agreement): _____

Date of Transfer: _____

Signature of grantor *(in ink)* _____

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

United States Of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate
(Continuation Sheet)

Number ST01761LA-D

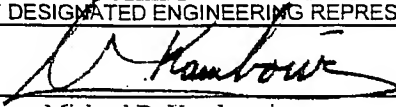
Date amended: September 16, 2006

Limitations and Conditions: (Continued)

FAA Approved Airplane Flight Manual Supplement CE41303M000, original release, dated September 16, 2006 or later FAA approved revision, is required for the Wireless Local Area Network with Broad-Band Multi-Link High Speed Data (-505 Configuration) and must be carried in the aircraft on all flights.

This installation should not be incorporated in any aircraft unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft. The approval of this modification applies to the above noted airplane model series only. A copy of this STC must be included in the permanent records of the modified aircraft. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

----- END -----

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION			DATE September 16, 2006
STATEMENT OF COMPLIANCE WITH THE FEDERAL AVIATION REGULATIONS			
AIRCRAFT OR AIRCRAFT COMPONENT IDENTIFICATION			
MAKE Gulfstream Aerospace	MODEL NO. G-IV	TYPE (<i>Airplane, Radio, Helicopter, etc.</i>) Airplane	NAME OF APPLICANT Gulfstream Aerospace Corp.
LIST OF DATA			
IDENTIFICATION	TITLE		
<p><u>GAC DRAWINGS:</u></p> <p>CE41 3030021 Rev. "A" Dated 09-15-06</p> <p>CE41 4290003 Rev. "A" Dated 09-15-06</p> <p>CE41 4300005 Rev. "A" Dated 09-15-06</p> <p style="text-align: center;"> <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: 80%;"> This approval indicates the data listed above demonstrates compliance only with the regulations specified by paragraph and subparagraph listed below as "Applicable Requirements". (Compliance to additional regulations not listed here may be required.) This form does not constitute FAA approval of all the data necessary for substantiation of compliance to necessary requirements for the entire alteration/repair. </div> </p> <p style="text-align: center;">(AVIONICS SYSTEMS DATA APPROVAL ONLY)</p>			
PURPOSE OF DATA			
Substantiates cockpit and cabin modifications. Aircraft S/N 1516 only.			
APPLICABLE REQUIREMENTS (<i>List specific sections</i>)			
FAR 25.1301(a)(b)(c), 25.1309(a)(b), 25.1353(a), 25.1357(a)(c) and 25.1431			
CERTIFICATION - Under authority vested by direction of the Administrator and in accordance with conditions and limitations of appointment under Part 183 of the Federal Aviation Regulations, data listed above and on attached sheets numbered _____ have been examined in accordance with established procedures and found to comply with applicable requirements of the Federal Aviation Regulations.			
I (We) Therefore: <input type="checkbox"/> Recommend Approval of these data <input checked="" type="checkbox"/> Approve these data			
SIGNATURE(S) OF DESIGNATED ENGINEERING REPRESENTATIVE(S)		DESIGNATION NUMBER(S)	CLASSIFICATION
 Michael B. Kambourian		DERT-606116-NM	Systems & Equipment Chart C2



U.S. Department
of Transportation
**Federal Aviation
Administration**

MAJOR REPAIR AND ALTERATION
(Airframe Powerplant, Propeller, or Appliance)

Form Approval
OMB No. 2120-0020

For FAA Use Only

Office Identification

INSTRUCTIONS. Print or type all entries. See FAR 43.9 FAR 43 Appendix B, and AC43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.U. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make Gulfstream Aerospace	Model G-IV
	Serial No. 1516	Nationality and Registration Marks N721BS
2. Owner	Name (As shown on registration Certificate) CFS Air LLC	Address (As shown on registration certificate) 44 Old Ridgebury Rd Danbury, Ct 06810-5107

3. For FAA Use Only

4. Unit Identification				5. Type	
Unit	Make	Model	Serial no.	Repairs	Alterations
Airframe	~~~~~ (As described in item 1 above) ~~~~~				X
Powerplant					
Propeller					
Appliance	Type				
	Manufacturer				

6. Conformity

A. Agency's Name and Address Gulfstream Aerospace Corporation 4150 Donald Douglas Drive Long Beach, CA. 90808	B. Kind of Agency <input type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input checked="" type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. FAA CRS EC3R470L Airframe Class 4, Limited Powerplant, Limited Accessory, Radio Class 1, 2, 3 Limited NDT
---	--	---

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date September 16, 2006	Signature of Authorized Individual Stacy Stegmaier, Airworthiness Inspector
-----------------------------------	---

7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is ☒ APPROVED ☐ REJECTED

BY	FAA Flt. Standards Inspector	Manufacturer	Inspection Authorization	Other (Specify)
	FAA Designee	<input checked="" type="checkbox"/> Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection September 16, 2006	Certificate or Designation No. CRS EC3R470L	Signature of Authorized Individual Raul Noriega, Q. C. Documentation Analyst		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alteration to assure continued conformity with the applicable airworthiness requirements

8. Description of Work Accomplished:

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed).

MODEL: G-IV

SERIAL NO.: 1516

TAIL NO.: N721BS

WORK ORDER NUMBER: SC1040

ACTT: 1,138.2

ACTL: 524

DATE BEGUN: September 11, 2006

DATE COMPLETED: September 16, 2006

Installation of a Wireless Local Area Network (WLAN) with SKYLink Broad-Band Multi-Link (BBML) High-Speed Data (HSD) (-505 Configuration) in accordance with approved Gulfstream Aerospace Corporation Index List GC41 3038003 and STC ST01761LA-D.

- FAA approved Flight Manual Supplement No. CE41 303M000, dated January 20, 2006 has been issued.
- Instructions for continued airworthiness contained in Gulfstream Aerospace Corporation report no. GC42 303A002 has been provided to the operator.

This system consist of the following major components:

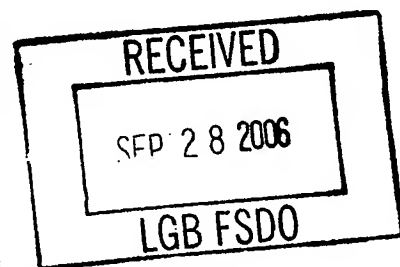
Description	Manufacture	Part Number
Antenna	ARINC	1000009
Antenna Control Unit	ARINC	1007783
AITR	ARINC	1000005
Advance Cabin Server	GAC	ACS-02-001
Wireless Network Access Point	GAC	GC51 4280075-01
Firewire Enclosure Drive Assy	GAC	GC544280033-01
Managed Switching Unit	GAC	MSU-01-001
Dual Band Detector	GAC	DBD-01-001
Antenna	CISCO	AIR-ANT4941
Print Server	GAC	GC514280078-01
Power Supply	KGS	LT-48

The impact of this change on aircraft weight and balance / equipment is contained in Gulfstream Aerospace Corporation Report No. GC42 303W003.

The impact of this change on aircraft electrical load is contained in Gulfstream Aerospace Corporation Report No. CE41 303E000.

This system found not to interfere with other existing onboard systems.

THE END



☐ Additional Sheets Are Attached

Supplemental Type Certificate

Number ST01761LA-D

This Certificate issued to Gulfstream Aerospace Corporation
4150 Donald Douglas Drive
Long Beach, California 90808

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 25 of the Federal Aviation Regulations.* *Certification basis is set forth in Type Certificate Data Sheet TCDS

Original Product Type Certificate Number: A12EA

Make: Gulfstream

Model: G-IV

Description of Type Design Change: Installation of a Wireless Local Area Network (WLAN) (-501 Configuration) or a Wireless Local Area Network (WLAN) with SKYLink Broad-Band Multi-Link (BBML) High-Speed Data (HSD) (-503 or -505 Configurations) in accordance with approved Gulfstream Aerospace Corporation Index List GC413038003 Revision "L", dated September 14, 2006 or later approved revision.

Limitations and Conditions:

FAA Approved Airplane Flight Manual Supplement GC41428M001, original release, dated January 20, 2006 or later FAA approved revision, is required for the Wireless Local Area Network (-501 Configuration) and must be carried in the aircraft on all flights.

FAA Approved Airplane Flight Manual Supplement GC41303M003, original release, dated January 20, 2006 or later FAA approved revision, is required for the Wireless Local Area Network with Broad-Band Multi-Link High Speed Data (-503 Configuration) and must be carried in the aircraft on all flights.

(Continued Page 3)

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: June 27, 2005

Date reissued:

Date of issuance: January 20, 2006

Date amended: September 16, 2006



By direction of the Administrator
A handwritten signature in dark ink, appearing to read "R. Wood".
(Signature)

Randall A. Wood

DAS Administrator, DAS-100271-NM
(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Regional Office of the transfer of this Supplemental Type Certificate.

The FAA will reissue the certificate in the name of the transferee and forward it to him.

TRANSFER ENDORSEMENT

Transfer the ownership of the Supplemental Type Certificate Number _____

to *(Name of transferee)* _____

(Address of transferee) _____

(Number and street)

(City, State, and Zip code)

from *(Name of grantor)* *(Print or type)* _____

(Address of grantor) _____

(Number and street)

(City, State, and Zip code)

Extent of Authority (if licensing agreement): _____

Date of Transfer: _____

Signature of grantor *(In ink)* _____

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

United States Of America
Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate
(Continuation Sheet)

Number ST01761LA-D

Date amended: September 16, 2006

Limitations and Conditions: (Continued)

FAA Approved Airplane Flight Manual Supplement CE41303M000, original release, dated September 16, 2006 or later FAA approved revision, is required for the Wireless Local Area Network with Broad-Band Multi-Link High Speed Data (-505 Configuration) and must be carried in the aircraft on all flights.

This installation should not be incorporated in any aircraft unless it is determined that the interrelationship between this installation and any previously approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft. The approval of this modification applies to the above noted airplane model series only. A copy of this STC must be included in the permanent records of the modified aircraft. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

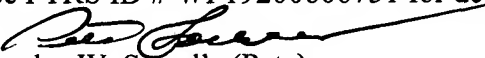
- - - - END - - - -

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

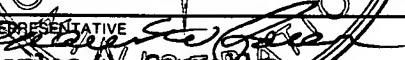
06/15/2006:

To all of ya'll that care:

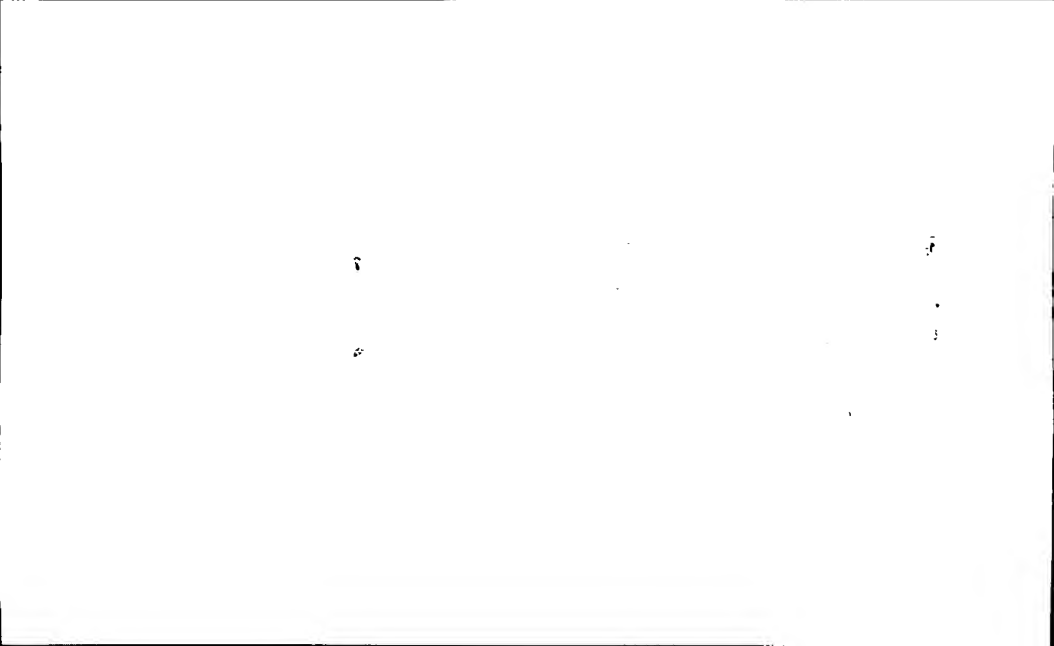
Replaced standard airworthiness certificate due to "n" number change. I am returning the "old" airworthiness certificate for N400GA and a copy of the "new" one, for N721BS. See PTRS ID # WP19200606731 for details.


Charles W. Sorrells (Pete)
WP19 LAS FSDO

UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION—FEDERAL AVIATION ADMINISTRATION
STANDARD AIRWORTHINESS CERTIFICATE

1. NATIONALITY AND REGISTRATION MARKS N721BS	2. MANUFACTURER AND MODEL Gulfstream G-IV (G400)	3. AIRCRAFT SERIAL NUMBER 1516	4. CATEGORY Transport
5. AUTHORITY AND BASIS FOR ISSUANCE <p>This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein.</p> <p>Exclusions:</p> <p>None</p>			
6. TERMS AND CONDITIONS <p>Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.</p>			
DATE OF ISSUANCE R11/06/03	FAA REPRESENTATIVE  Charles W. Sorrells		DESIGNATION NUMBER WP19-LAS FSDO

Any alteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.



UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION—FEDERAL AVIATION ADMINISTRATION
STANDARD AIRWORTHINESS CERTIFICATE

1 NATIONALITY AND REGISTRATION MARKS	2 MANUFACTURER AND MODEL	3 AIRCRAFT SERIAL NUMBER	4. CATEGORY
N400GA	Gulfstream Aerospace G-IV (G400)	1516	Transport

5. AUTHORITY AND BASIS FOR ISSUANCE

This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein.

Exceptions:

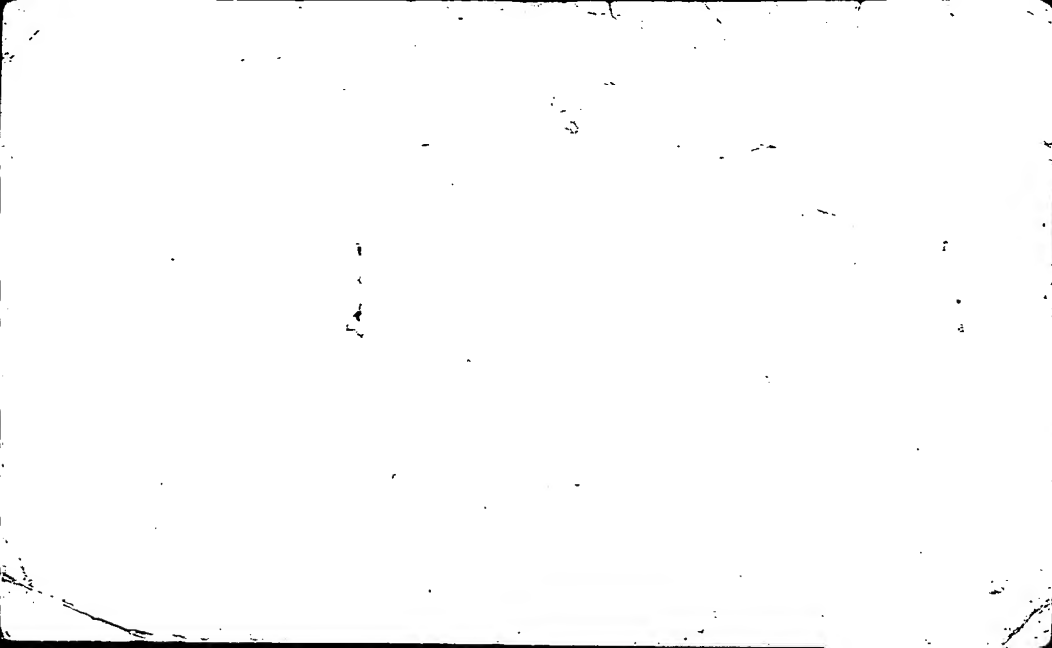
None



6. TERMS AND CONDITIONS

Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.

DATE OF ISSUANCE	FAA REPRESENTATIVE	DESIGNATION NUMBER
R - 11/06/2003	 Victor D'Alessandro	ODART-200023-SO

Any alteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.



 US Department of Transportation Federal Aviation Administration	MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)	Form Approved OMB No. 2120-0020 <hr/> For FAA Use Only <hr/> Office Identification <i>58-11</i>
INSTRUCTIONS: Print or type all entries. See FAR 43.9 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).		
1. Aircraft	Make Gulfstream	Model G-IV (G400)
	Serial No. 1516	Nationality and Registration Mark N400GA
2. Owner	Name (As shown on registration certificate) AVN AIR LLC	Address (As shown on registration certificate) 44 OLD RIDGEBURY RD DANBURY, CT 06810-5107
3. For FAA Use Only		
4. Unit Identification		5. Type
Unit	Make	Model
Serial No.	Repair	Alteration
AIRFRAME	~~~~~ (As described in Item 1 above) ~~~~~	
POWERPLANT		X
PROPELLER		
APPLIANCE	Type	
	Manufacturer	
6. Conformity Statement		
A. Agency's Name and Address	B. Kind of Agency	C. Certificate No.
Gulfstream Aerospace Corporation 500 Gulfstream Road Savannah, GA 31407	<input type="checkbox"/> U.S. Certified Mechanic	GR4R216M <small>Accessory Class: I, II & III / Radio Class: I, II, III / Instrument Class: I, II & III, NDT Specialized Services, Airframe: All G-159, G-1159, G-IV, G-V, Astra, G100, Galaxy & G200 Series Aircraft, Powerplant: R/R MK-529, MK511-8, MK610-8, MK611-8 & BMW Rolls Royce 700-710, TFE731-3A-200G, TFE731-3C-200G & PW306A.</small>
	<input type="checkbox"/> Foreign Certified Mechanic	
	<input checked="" type="checkbox"/> Certified Repair Station	
	<input type="checkbox"/> Manufacturer	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.		
Date 03/10/2005	Signature of Authorized Individual Michael J. Hammond <i>Michael J. Hammond</i>	
7. Approval for Return to Service		
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED		
BY	FAA Flt. Standards Inspector	Manufacturer
	FAA Designee	X Repair Station
		Inspection Authorization
		Person Approved by Transport Canada Airworthiness Group
Date of Approval or Rejection 03/10/2005		Signature of Authorized Individual Stephen V. Ingram <i>Stephen V. Ingram</i>
Certificate or Designation No. GR4R216M		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets, Identify with aircraft nationality and registration mark and date work accomplished.)

Reference: Gulfstream Aerospace Corporation Work Order No.: SC26670

1. Verified the existing # 1 and # 2 Collins TDR-94D Mode S Transponders status and upgraded the stand alone Collins RTU -4220 Radio Tuning Units with Flight ID capable Collins Transponders and Radio Tuning Units in accordance with STC ST01119WI-D.
 - Reference Collins Installation Instructions Document CPN: 992-4438-001 Rev NC dated 10/11/2002.
 - Reference Collins Drawing Index Number CPN: 992-4434-001 Rev NC dated 10/29/2002.
 - Reference FAA Approved Model List (AML) Number ST01119WI-D dated 10/29/2002.
 - Provided operator with "RTU Operations" on page 11 of the Collins Installation Instructions Document CPN: 992-4438-001 Rev NC dated 10/11/2002.
 - Mode S Transponders were previously upgraded to -007.
2. The installed equipment is required to be operational unless specifically listed on the MEL for the aircraft.
3. Updated the Equipment List section of the Weight & Balance manual.
4. The weight and balance change to the aircraft is negligible.

-----End-----

Gulfstream

A GENERAL DYNAMICS COMPANY

May 10, 2004
ODAR-2004-016

Mr. Tommy Bush
Aviation Safety Inspector (AW)
DOT/FAA/GA-FSDO-11
Campus Building
1701 Columbia Avenue
Suite 2-110, Unit C
College Park, Ga. 30337-2748

Subject: Request for Replacement Standard Airworthiness Certificate for Gulfstream Aerospace Corporation
Aircraft Model no.: G-IV (G400), Production No.: 1516, N516GA, due to change to N400GA.

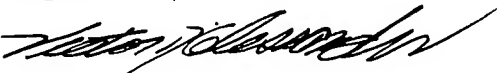
Attachments:

1. Original Standard Airworthiness Certificate, FAA Form 8100-2,
dated A 11/06/2003 issued to G-IV (G400), S/N: 1516, N516GA.
2. Duplicate Standard Airworthiness Certificate, FAA Form 8100-2,
dated R – 11/06/2003 issued to G-IV (G400), S/N: 1516, N400GA on 05/10/04.

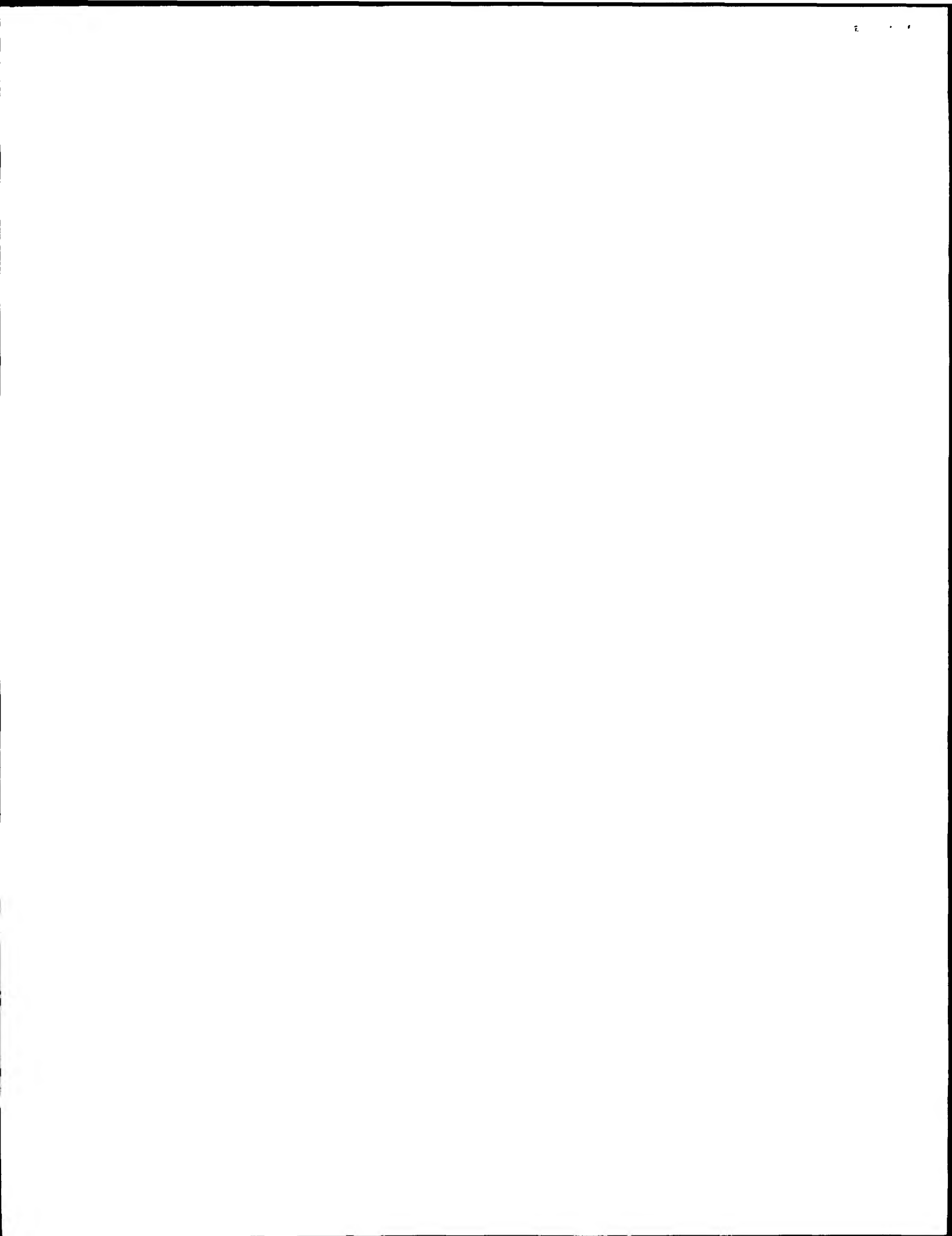
Dear Sir,

A Replacement Standard Airworthiness Certificate was issued for subject aircraft due to change of registration number to N400GA from N516GA. The aircraft is currently here at Gulfstream Aerospace Corporation in our Gulfstream Service Center and is scheduled to fly on or about 05/13/04. The new registration number, N516GA has been painted on the aircraft's left and right engine cowls. I have issued a Replacement Certificate of Airworthiness dated R – 11/06/2003 on 05/10/04.

Regards,



Victor D'Alessandro
ODART-200023-SO
Gulfstream Aerospace Corporation
Savannah, Georgia
/wfw



UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION—FEDERAL AVIATION ADMINISTRATION
STANDARD AIRWORTHINESS CERTIFICATE

1. NATIONALITY AND REGISTRATION MARKS N400GA	2. MANUFACTURER AND MODEL Gulfstream Aerospace G-IV (G400)	3. AIRCRAFT SERIAL NUMBER 1516	4. CATEGORY Transport
5. AUTHORITY AND BASIS FOR ISSUANCE This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein. Exceptions: None			
6. TERMS AND CONDITIONS Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.			
DATE OF ISSUANCE R-11/06/2003	FAA REPRESENTATIVE Victor D'Alessandro	DESIGNATION NUMBER ODART-200023-SO	
Any alteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.			
FAA Form 8100-2 (8-82)		★ U.S. GOVERNMENT PRINTING OFFICE: 1991 - 668-228	

DUPLICATE OF ORIGINAL 8100-2

UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION—FEDERAL AVIATION ADMINISTRATION
STANDARD AIRWORTHINESS CERTIFICATE

1. NATIONALITY AND REGISTRATION MARKS N516GA	2. MANUFACTURER AND MODEL Gulfstream G-IV (G400)	3. AIRCRAFT SERIAL NUMBER 1516	4. CATEGORY Transport
5. AUTHORITY AND BASIS FOR ISSUANCE This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein. Exceptions: None			
6. TERMS AND CONDITIONS Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.			
DATE OF ISSUANCE A11/06/03	FAA REPRESENTATIVE Robert L. Kindle	DESIGNATION NUMBER ODARF100127CE	
Any alteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.			
FAA Form 8100-2 (8-82)		U.S. GPO-2001 - 668-455	

SUPERCEDED ORIGINAL 8100-2

ORIGINALS ATTACHED:

ODAR 7/7

WITNESS [Signature]

**NOTE: NO PHOTOCOPIES PERMITTED!!!!!!
ORIGINAL 8100-2's ONLY. IF ORIGINALS NOT
ENCLOSED CONTACT VICTOR D'ALESSANDRO
IMMEDIATELY AT 912-965-4253.**

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APPLICATION FOR AIRWORTHINESS CERTIFICATE

INSTRUCTIONS - Print or type. Do not write in shaded areas. These are for FAA use only. Submit original only to an authorized FAA Representative. If additional space is required use an attachment. For special flight permits complete Sections II, VI and VII as applicable.

Form Approved
O.M.B. No. 2120-0018

Reviewed: *Ch. J. Smith*

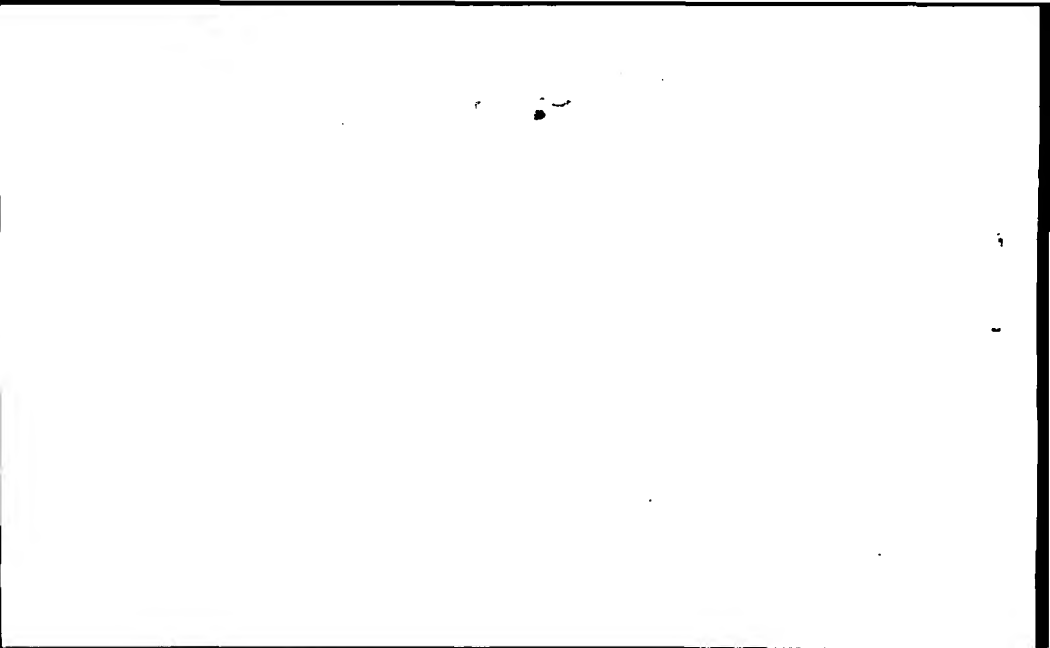
I. AIRCRAFT DESCRIPTION	1. REGISTRATION MARK N516GA	2. AIRCRAFT BUILDER'S NAME (Make) Gulfstream	3. AIRCRAFT MODEL DESIGNATION G-IV (G400)	4. YR MFR 2003	FAA CODING 3980115 54561	
	5. AIRCRAFT SERIAL NO. 1516	6. ENGINE BUILDERS NAME (Make) Rolls Royce	7. ENGINE MODEL DESIGNATION TAY 611-8			
	8. NUMBER OF ENGINES (2)	9. PROPELLER BUILDER'S NAME (Make) N/A	10. PROPELLER MODEL DESIGNATION N/A	11. AIRCRAFT IS (Check if applicable) <input type="checkbox"/> IMPORT		
	APPLICATION IS HEREBY MADE FOR: (Check applicable items)					
II. CERTIFICATION REQUESTED	A 1 <input checked="" type="checkbox"/>	STANDARD AIRWORTHINESS CERTIFICATE (Indicate category)				<input type="checkbox"/> NORMAL <input type="checkbox"/> UTILITY <input type="checkbox"/> ACROBATIC <input checked="" type="checkbox"/> TRANSPORT <input type="checkbox"/> COMMUTER <input type="checkbox"/> BALLOON <input type="checkbox"/> OTHER
	B <input type="checkbox"/>	SPECIAL AIRWORTHINESS CERTIFICATE (Check appropriate items)				
	7 <input type="checkbox"/>	PRIMARY				
	2 <input type="checkbox"/>	LIMITED				
	5 <input type="checkbox"/>	PROVISIONAL (Indicate class)				
	3 <input type="checkbox"/>	RESTRICTED (Indicate operation(s) to be conducted)				
	4 <input type="checkbox"/>	EXPERIMENTAL (Indicate operation(s) to be conducted)				
	8 <input type="checkbox"/>	SPECIAL FLIGHT PERMIT (Indicate operation to be conducted then complete Section VI or VII as applicable on reverse side)				
	C 6 <input type="checkbox"/>	MULTIPLE AIRWORTHINESS CERTIFICATE (Check ABOVE: "Restricted Operation" and "Standard" or "Limited" as applicable)				
	III. OWNER'S CERTIFICATION	A. REGISTERED OWNER (As shown on certificate of aircraft registration)				
NAME Gulfstream Aerospace Corporation		ADDRESS P.O. Box 2206 Savannah, GA 31402				
B. AIRCRAFT CERTIFICATION BASIS (Check applicable blocks and complete items as indicated)						
<input checked="" type="checkbox"/> AIRCRAFT SPECIFICATION OR TYPE CERTIFICATE DATA SHEET (Give No. and Revision No.) A12EA Rev. 26		<input checked="" type="checkbox"/> AIRWORTHINESS DIRECTIVES (Check if all applicable AD's complied with and give the number of the last AD SUPPLEMENT available in the biweekly series as of the date of application) 2003-22-05				
<input checked="" type="checkbox"/> AIRCRAFT LISTING (Give page number(s)) N/A		<input type="checkbox"/> SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated)				
C. AIRCRAFT OPERATION AND MAINTENANCE RECORDS						
IV. INSPECTION AGENCY VERIFICATION	<input checked="" type="checkbox"/> CHECK IF RECORDS IN COMPLIANCE WITH 14 CFR section 91.417		TOTAL AIRFRAME HOURS 3:42 Hrs.		3 EXPERIMENTAL ONLY (Enter hours flown since last certificate issued or renewed)	
	D. CERTIFICATION - I hereby certify that I am the registered owner (or his agent) of the aircraft described above, that the aircraft is registered with the Federal Aviation Administration in accordance with Title 49 of the United States Code 44101 et seq., and applicable Federal Aviation regulations, and that the aircraft has been inspected and is airworthy and eligible for the airworthiness certificate requested.					
	DATE OF APPLICATION 11/06/03		NAME AND TITLE (Print or type) Marcus Kessler, Final Operations Manager		SIGNATURE <i>Marcus Kessler</i>	
	A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY (Complete these sections only if 14 CFR part 21.183(d) applies)					
V. FAA REPRESENTATIVE CERTIFICATION	2 <input type="checkbox"/> 14 CFR PART 121 CERTIFICATE HOLDER (Give Certificate No.)		3 <input type="checkbox"/> CERTIFICATED MECHANIC (Give Certificate No.)		6 <input type="checkbox"/> CERTIFICATED REPAIR STATION (Give Certificate No.)	
	5 <input type="checkbox"/> AIRCRAFT MANUFACTURER (Give name or firm)					
	DATE		TITLE		SIGNATURE	
	(Check ALL applicable blocks in Items A and B)					
A. I find that the aircraft described in Section I or VII meets requirements for		4 <input checked="" type="checkbox"/> AMMENDMENT OR MODIFICATION OF CURRENT AIRWORTHINESS CERTIFICATE				
B. Inspection for a special flight permit under Section VII was conducted by:		<input type="checkbox"/> FAA INSPECTOR <input type="checkbox"/> FAA DESIGNEE				
DATE 11/06/03		DISTRICT OFFICE CE42		DESIGNEE'S SIGNATURE AND NO. <i>Robert L. Kindle II</i> Robert L. Kindle II ODARF100127CE		
				1 FAA INSPECTOR'S SIGNATURE <i>NOV 10 2003</i>		

VI. PRODUCTION FLIGHT TESTING	A. MANUFACTURER			
	NAME		ADDRESS	
	B. PRODUCTION BASIS <i>(Check applicable items)</i>			
	<input type="checkbox"/> PRODUCT CERTIFICATE <i>(Give production certificate number)</i> <input type="checkbox"/> TYPE CERTIFICATE ONLY <input type="checkbox"/> APPROVED PRODUCTION INSPECTION SYSTEM			
C. GIVE QUANTITY OF CERTIFICATES REQUIRED FOR OPERATING NEEDS →				
DATE OF APPLICATION		NAME AND TITLE <i>(Print or type)</i>		SIGNATURE
VII. SPECIAL FLIGHT PERMIT PURPOSES OTHER THAN PRODUCTION FLIGHT TEST	A. DESCRIPTION OF AIRCRAFT			
	REGISTERED OWNER		ADDRESS	
	BUILDER <i>(Make)</i>		MODEL	
	SERIAL NUMBER		REGISTRATION MARK	
	B. DESCRIPTION OF FLIGHT CUSTOMER DEMONSTRATION FLIGHTS <input type="checkbox"/> <i>(Check if applicable)</i>			
	FROM		TO	
	VIA		DEPARTURE DATE	DURATION
	C. CREW REQUIRED TO OPERATE THE AIRCRAFT AND ITS EQUIPMENT			
	<input type="checkbox"/> PILOT <input type="checkbox"/> CO-PILOT <input type="checkbox"/> FLIGHT ENGINEER <input type="checkbox"/> OTHER <i>(Specify)</i>			
	D. THE AIRCRAFT DOES NOT MEET THE APPLICABLE AIRWORTHINESS REQUIREMENTS AS FOLLOWS			
	E. THE FOLLOWING RESTRICTIONS ARE CONSIDERED NECESSARY FOR SAFE OPERATION <i>(Use attachment if necessary)</i>			
	F. CERTIFICATION - I hereby certify that I am the registered owner (or his agent) of the aircraft described above; that the aircraft is registered with the Federal Aviation Administration in accordance with Title 49 of the United States Code 44101 <u>et seq.</u> and applicable Federal Aviation Regulations, and that the aircraft has been inspected and is airworthy for the flight described.			
DATE		NAME AND TITLE <i>(Print or type)</i>		SIGNATURE
VIII. AIRWORTHINESS DOCUMENTATION <small><i>(FAA DESIGNER use only)</i></small>	<input checked="" type="checkbox"/> A. Operating Limitations and Markings in compliance with 14 CFR section 91.9 as Applicable		<input type="checkbox"/> G. Statement of conformity, FAA Form 8130-9 <i>(Attach when required)</i>	
	<input type="checkbox"/> B. Current Operating Limitations Attached		<input type="checkbox"/> H. Foreign Airworthiness Certification for Import Aircraft <i>(Attached when required)</i>	
	<input type="checkbox"/> C. Data, Drawings, Photographs, etc. <i>(Attach when required)</i>		<input checked="" type="checkbox"/> I. Previous Airworthiness Certificate issued in Accordance with 14 CFR Section 21.183 (a) CAR _____ <i>(Original attached)</i>	
	<input checked="" type="checkbox"/> D. Current Weight and Balance Information Available in Aircraft		<input checked="" type="checkbox"/> J. Current Airworthiness Certificate Issued in Accordance with 14 CFR Section 21.183 (d) <i>(Copy attached)</i>	
	<input type="checkbox"/> E. Major Repair and Alteration, FAA Form 337 <i>(Attached when required)</i>			
	<input checked="" type="checkbox"/> F. This inspection Recorded in Aircraft Records			

UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION—FEDERAL AVIATION ADMINISTRATION
STANDARD AIRWORTHINESS CERTIFICATE

1. NATIONALITY AND REGISTRATION MARKS N516GA	2. MANUFACTURER AND MODEL Gulfstream G-IV (G400)	3. AIRCRAFT SERIAL NUMBER 1516	4. CATEGORY Transport
5. AUTHORITY AND BASIS FOR ISSUANCE <p>This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein.</p> <p>Exceptions:</p> <p>None</p>			
6. TERMS AND CONDITIONS <p>Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.</p>			
DATE OF ISSUANCE A11/06/03	FAA REPRESENTATIVE Robert L. Kindle		DESIGNATION NUMBER ODARF100127CE

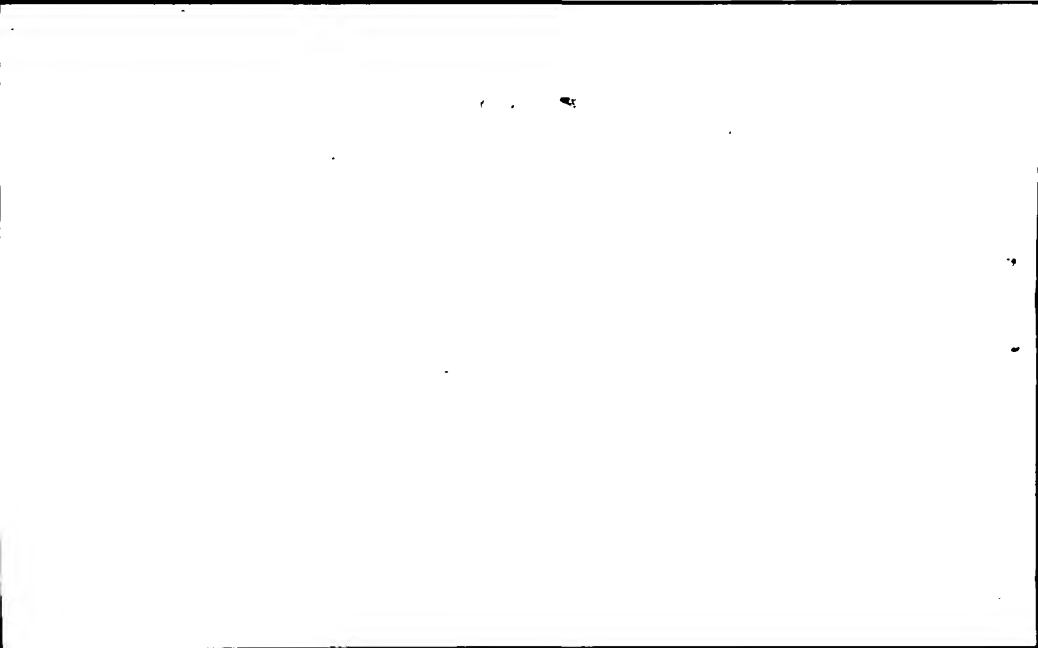
Any alteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.



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6. TERMS AND CONDITIONS <p>Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventive maintenance, and alterations are performed in accordance with Parts 23, 43, and 91 of the Federal Aviation Regulations as appropriate, and the aircraft is registered in the United States.</p>			
DATE OF ISSUANCE 11/05/03	FAA REPRESENTATIVE Robert L. King		DESIGNATION NUMBER ODARF100127CE

Any alteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.



Conformity Inspection Record			1. Project Number, TIA/Request Date: AIRWORTHINESS CERTIFICATION (G400) PA1008CE		2. SHEET 1 of 3	Sheets
3. Applicant/Manufacturer: Gulfstream Aerospace Corporation P.O. Box 2206 Savannah, Ga. 31402			4. Beginning Date: 11/06/03		5. Ending Date: 11/06/03	
6. Model: G-IV (G400) S/N 1516 N516GA			7. Inspected By: Robert L. Kindie II ODARF100127CE			
8. Item No.	9. Nomenclature of Item Inspected	10. Drawing, Document, Specification, etc.	11. Revision and Date	12. No. of Items Determined SAT. UNSAT.	13. Comments	
1	Application	8130-6	5/01	1	Reviewed the application for the purpose of an amended standard airworthiness certificate S/N 1516 N516GA dated 11/06/03.	
2	Aircraft Registry		8/19/02	1	Verified the aircraft registry letter dated 8/19/02.	
3	Weight And Balance		Basic 09/02	1	Verified That ASC 440 has been added to the weight and balance. Dated 11/06/03. There is no change to the CG.	
4	Airworthiness Directives	Airworthiness Directives Listing		1	Reviewed AD'S through the bi-weekly 2003-22. Verified all manufacturing AD's are signed off in log book.	
5	Flight Manual	GAC-AC-G400-OPS-0001	Basic 1/15/03	1	Verified the latest approved revision flight manual for the (G400).	
6	Removal And Installation	GA 17	6/99	1	Verified the R&I log for 1516 (G400) was complete.	
7	TC Data Sheet	A12EA	Rev. 25 12/11/02	1	Verified the TCDS has the ASC 440 incorporated. Found on page 39 note 8. This states that model G-IV S/N 1500 & Sub, are eligible For identification as model G-IV (G400) when Modified in Accordance with GAC ASC 440.	

INSTRUCTIONS

1. List the FAA assigned project number along with date of TIA or Request for Conformity, as applicable.
2. Self-explanatory
3. List the applicant or the manufacturer, or both. (The manufacturer may be the party producing or responsible for the product).
4. List the date the inspection began.
5. List the date the inspection ended.
6. If inspecting an aircraft, list the make, model, N-number, and serial number. For an engine or propeller, list the make, model, and serial number.
7. Aviation safety inspectors must type or print name, sign, and enter office identification. Designees must type or print name, sign, and list their designee identification number.
8. Assign consecutive numbers for each item inspected.
9. List the name or description of the part, appliance, assembly, drawing, document, specification, or name of the process being evaluated.
10. List the technical data that describes the item listed in Block 9, i.e., drawing number, document number, process specification number, etc.
11. List the revision level and date of the technical data described in Block 10.
12. List the number of items that were determined satisfactory or unsatisfactory. Do not record individual characteristics. **NOTE:** (An item is a single article or unit containing one or more dimensional characteristics or features.)
13. Enter comments in this block that will support any information given in Blocks 8 through 12, i.e., unsatisfactory conditions, corrective actions taken, reference to other item numbers listed, serial numbers, type of inspection accomplished, destination of exported products, buyer furnished equipment, parts processed through manufacturer's maintenance facility, part new or newly overhauled, condition of part or assembly, etc.
14. To be used for supplementing items 1-13.

NOTE: Unsatisfactory conditions are corrected in one of two ways:

Method 1: If action is presented to correct an unsatisfactory condition, the action is entered in Block 13 and the number in the UNSAT column of Block 12 is lined through and initialed. The number of items now determined satisfactory is entered in the SAT column next to the corrective action entry.

Method 2: If corrective action is not presented, the inspector may continue the inspection by entering the next item inspected. When corrective action to the unsatisfactory condition is eventually presented, assign the item a new number and record the number in Block 8. Complete Blocks 9 and 10, enter a new revision and date if data has changed, and enter the number of items determined satisfactory in Block 12. Record both the corrective action taken and the item number of the unsatisfactory condition in Block 13. Place the item number in parenthesis. Next, line through and initial the number in the UNSAT column located next to Block 13 containing the unsatisfactory condition. Record the corrective action entry item number along with the unsatisfactory condition statement and place the number in parenthesis.

14. Continuation Block

Conformity Inspection Record			1. Project Number, TIA/Request Date: AIRWORTHINESS CERTIFICATION (G400) PA1008CE		2. SHEET 2 of 3 Sheets	
3. Applicant/Manufacturer: Gulfstream Aerospace Corporation P.O. Box 2206 Savannah, Ga. 31402			4. Beginning Date: 11/06/03		5. Ending Date: 11/06/03	
6. Model: G-IV (G400) S/ N 1516 N516GA			7. Inspected By: <i>Robert L. Kindel II</i> Robert L. Kindel II ODA RF100127CE			
8. Item No.	9. Nomenclature of Item Inspected	10. Drawing, Document, Specification, etc.	11. Revision and Date	12. No. of Items Determined SAT. UNSAT.	13. Comments	
8	Aircraft I.D. Plate Instl.	1159SB49935	Rev.- 11/25/02 EO A1 12/17/02	1	Verified the installation of the I.D. plate for the G-IV (G400). Verified That EO A1 does not have any effect on the instl. of the -1 . EO effectivity is for aircraft 1500-1501.	
9	Top DWG- G400 DATA Plate Instl.	1159ASC41440 A0024625301	Rev. C 6/19/03	1	Verified the manufacturer route card for the -1 top drawing, and Verified the 8110-3 for the Rev.C found it to be sat.	
10	Statement Of Compliance With Federal Aviation Regulations	8110-3	11/70	1	Verified the 8110-3 for the following drawing and their latest change: 1159ASC41440 Rev. C 6/19/03 1159SB49935 Rev. - 11/25/02 EO A1 12/17/02	
11	Ground Inspection			1	Visually inspected the following areas for safety and security. L/H & R/H Wheel Wells L/H & R/H Rear Beams Nose Wheel Well L/H & R/H Cheek Area Cockpit Cabin Baggage Compartment Tail Compartment	
12	Condition for Safe Operation			1	Inspected the ASC 440 changes to A/C 1516 to create the G400 and found the aircraft to be in a condition for safe operation.	

INSTRUCTIONS

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2. Self-explanatory
3. List the applicant or the manufacturer, or both. (The manufacturer may be the party producing or responsible for the product).
4. List the date the inspection began.
5. List the date the inspection ended.
6. If inspecting an aircraft, list the make, model, N-number, and serial number. For an engine or propeller, list the make, model, and serial number.
7. Aviation safety inspectors must type or print name, sign, and enter office identification. Designees must type or print name, sign, and list their designee identification number.
8. Assign consecutive numbers for each item inspected.
9. List the name or description of the part, appliance, assembly, drawing, document, specification, or name of the process being evaluated.
10. List the technical data that describes the item listed in Block 9, i.e., drawing number, document number, process specification number, etc.
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14. Continuation Block

2. SHEET 3 of 3 Sheets

5. Ending Date:

11/06/03

7. Inspected By: Robert L. Kindle II
Robert L. Kindle II ODARF100127CE

[illegible]

INSTRUCTIONS

1. List the FAA assigned project number along with date of TIA or Request for Conformity, as applicable.
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14. Continuation Block

 U.S. Department of Transportation Federal Aviation Administration		APPLICATION FOR AIRWORTHINESS CERTIFICATE		INSTRUCTIONS - Print or type. Do not write in shaded areas. These are for FAA use only. Submit original only to an authorized FAA Representative. If additional space is required use an attachment. For special flight permits complete Sections II, VI and VII as applicable.																			
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APPLICATION IS HEREBY MADE FOR: (Check applicable items)																							
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														2 <input type="checkbox"/> Class II									
												3 <input type="checkbox"/> RESTRICTED (Indicate operation(s) to be conducted)		1 <input type="checkbox"/> AGRICULTURE AND PEST CONTROL		2 <input type="checkbox"/> AERIAL		3 <input type="checkbox"/> AERIAL ADVERTISING					
														4 <input type="checkbox"/> FOREST (Wildlife conservation)		5 <input type="checkbox"/> PATROLLING		6 <input type="checkbox"/> WEATHER CONTROL					
														0 <input type="checkbox"/> OTHER (Specify)									
												4 <input type="checkbox"/> EXPERIMENTAL (Indicate operation(s) to be conducted)		1 <input type="checkbox"/> RESEARCH AND DEVELOPMENT		2 <input type="checkbox"/> AMATEUR BUILT		3 <input type="checkbox"/> EXHIBITION					
														4 <input type="checkbox"/> AIR RACING		5 <input type="checkbox"/> CREW TRAINING		6 <input type="checkbox"/> MARKET SURVEY					
														0 <input type="checkbox"/> TO SHOW COMPLIANCE WITH THE CFR		7 <input type="checkbox"/> OPERATING (Primary Category) KIT BUILT AIRCRAFT							
8 <input type="checkbox"/> SPECIAL FLIGHT PERMIT (Indicate operation to be conducted then complete Section VI or VII as applicable on reverse side)		1 <input type="checkbox"/> FERRY FLIGHT FOR REPAIRS, ALTERATIONS, MAINTENANCE, OR STORAGE																					
		2 <input type="checkbox"/> EVACUATE FROM AREA OF IMPENDING DANGER																					
		3 <input type="checkbox"/> OPERATION IN EXCESS OF MAXIMUM CERTIFICATED TAKE-OFF WEIGHT																					
		4 <input type="checkbox"/> DELIVERING OR EXPORTING		5 <input type="checkbox"/> PRODUCTION FLIGHT TESTING																			
		6 <input type="checkbox"/> CUSTOMER DEMONSTRATION FLIGHTS																					
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												<input type="checkbox"/> AIRCRAFT LISTING (Give page number(s)) N/A						<input type="checkbox"/> SUPPLEMENTAL TYPE CERTIFICATE (List number of each STC incorporated) N/A					
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												DATE OF APPLICATION 11/05/03				NAME AND TITLE (Print or type) Marcus Kessler, Production Manager				SIGNATURE <i>Marcus Kessler</i>			
IV. INSPECTION AGENCY VERIFICATION												A. THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY (Complete these sections only if 14 CFR part 21.183(d) applies)											
												2 <input type="checkbox"/> 14 CFR PART 121 CERTIFICATE HOLDER (Give Certificate No.)				3 <input type="checkbox"/> CERTIFICATED MECHANIC (Give Certificate No.)				6 <input type="checkbox"/> CERTIFICATED REPAIR STATION (Give Certificate No.)			
												5 <input type="checkbox"/> AIRCRAFT MANUFACTURER (Give name or firm)											
												DATE				TITLE				SIGNATURE			
V. FAA REPRESENTATIVE CERTIFICATION												(Check ALL applicable blocks in items A and B) A. I find that the aircraft described in Section I or VII meets requirements for											
												<input checked="" type="checkbox"/> THE CERTIFICATE REQUESTED											
												4 <input type="checkbox"/> AMMENDMENT OR MODIFICATION OF CURRENT AIRWORTHINESS CERTIFICATE											
												<input type="checkbox"/> FAA INSPECTOR <input type="checkbox"/> FAA DESIGNEE											
												<input type="checkbox"/> CERTIFICATE HOLDER UNDER <input type="checkbox"/> 14 CFR part 65 <input type="checkbox"/> 14 CFR part 121 or 135 <input type="checkbox"/> 14 CFR part 145											
DATE 11/05/03				DISTRICT OFFICE CE42				DESIGNEE'S SIGNATURE AND NO. <i>Robert L. Kindle II</i> ODARF100127CE				FAA INSPECTOR'S SIGNATURE NRB NOV 10 2003											

VI. PRODUCTION FLIGHT TESTING	A. MANUFACTURER		
	NAME		ADDRESS
	B. PRODUCTION BASIS (Check applicable items)		
	<input type="checkbox"/> PRODUCT CERTIFICATE (Give production certificate number) <input type="checkbox"/> TYPE CERTIFICATE ONLY <input type="checkbox"/> APPROVED PRODUCTION INSPECTION SYSTEM		
C. GIVE QUANTITY OF CERTIFICATES REQUIRED FOR OPERATING NEEDS →			
DATE OF APPLICATION		NAME AND TITLE (Print or type)	SIGNATURE
VII. SPECIAL FLIGHT PERMIT PURPOSES OTHER THAN PRODUCTION FLIGHT TEST	A. DESCRIPTION OF AIRCRAFT		
	REGISTERED OWNER		ADDRESS
	BUILDER (Make)		MODEL
	SERIAL NUMBER		REGISTRATION MARK
	B. DESCRIPTION OF FLIGHT CUSTOMER DEMONSTRATION FLIGHTS <input type="checkbox"/> (Check if applicable)		
	FROM		TO
	VIA	DEPARTURE DATE	DURATION
	C. CREW REQUIRED TO OPERATE THE AIRCRAFT AND ITS EQUIPMENT		
	<input type="checkbox"/> PILOT <input type="checkbox"/> CO-PILOT <input type="checkbox"/> FLIGHT ENGINEER <input type="checkbox"/> OTHER (Specify)		
	D. THE AIRCRAFT DOES NOT MEET THE APPLICABLE AIRWORTHINESS REQUIREMENTS AS FOLLOWS		
	E. THE FOLLOWING RESTRICTIONS ARE CONSIDERED NECESSARY FOR SAFE OPERATION (Use attachment if necessary)		
F. CERTIFICATION - I hereby certify that I am the registered owner (or his agent) of the aircraft described above: that the aircraft is registered with the Federal Aviation Administration in accordance with Title 49 of the United States Code 44101 <u>et seq.</u> and applicable Federal Aviation Regulations, and that the aircraft has been inspected and is airworthy for the flight described.			
DATE		NAME AND TITLE (Print or type)	SIGNATURE
VIII. AIRWORTHINESS DOCUMENTATION (FAA/DESIGNEE use only)	<input checked="" type="checkbox"/>	A. Operating Limitations and Markings in compliance with 14 CFR section 91.9 as Applicable	<input type="checkbox"/> G. Statement of conformity, FAA Form 8130-9 (Attach when required)
	<input type="checkbox"/>	B. Current Operating Limitations Attached	<input type="checkbox"/> H. Foreign Airworthiness Certification for Import Aircraft (Attached when required)
	<input type="checkbox"/>	C. Data, Drawings, Photographs, etc. (Attach when required)	<input checked="" type="checkbox"/> I. Previous Airworthiness Certificate issued in Accordance with 14 CFR Section 21.197(a)(3) CAR _____ (Original attached)
	<input checked="" type="checkbox"/>	D. Current Weight and Balance Information Available in Aircraft	<input checked="" type="checkbox"/> J. Current Airworthiness Certificate Issued in Accordance with 14 CFR Section 21.183(a) (Copy attached)
	<input type="checkbox"/>	E. Major Repair and Alteration, FAA Form 337 (Attached when required)	
	<input checked="" type="checkbox"/>	F. This inspection Recorded in Aircraft Records	

UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION—FEDERAL AVIATION ADMINISTRATION
STANDARD AIRWORTHINESS CERTIFICATE

1. NATIONALITY AND REGISTRATION MARKS N516GA	2. MANUFACTURER AND MODEL Gulfstream G-IV	3. AIRCRAFT SERIAL NUMBER 1516	4. CATEGORY Transport
5. AUTHORITY AND BASIS FOR ISSUANCE This airworthiness certificate is issued pursuant to the Federal Aviation Act of 1958 and certifies that, as of the date of issuance, the aircraft to which issued has been inspected and found to conform to the type certificate therefor, to be in condition for safe operation, and has been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 to the Convention on International Civil Aviation, except as noted herein. Exceptions: None			
6. TERMS AND CONDITIONS Unless sooner surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator, this airworthiness certificate is effective as long as the maintenance, preventative maintenance, and alterations are performed in accordance with Parts 21, 43, and 91 of the Federal Aviation Regulations, as appropriate, and the aircraft is registered in the United States.			
DATE OF ISSUANCE 11/05/03	FAA REPRESENTATIVE <i>Robert L. Kindle</i> Robert L. Kindle		DESIGNATION NUMBER ODARF100127CE

Any alteration, reproduction, or misuse of this certificate may be punishable by a fine not exceeding \$1,000, or imprisonment not exceeding 3 years, or both. THIS CERTIFICATE MUST BE DISPLAYED IN THE AIRCRAFT IN ACCORDANCE WITH APPLICABLE FEDERAL AVIATION REGULATIONS.

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14

Conformity Inspection Record				1. Project Number, TIA/Request Date: Standard Airworthiness Certificate PA1008CE		2. SHEET 1 of 4		Sheets	
3. Applicant/Manufacturer: Gulfstream Aerospace Corporation P.O. Box 2206 Savannah, Ga. 51602				4. Beginning Date: 11/05/03		5. Ending Date: 11/05/03			
6. Model: G-IV S/N 1516 N516GA				7. Inspected By: <i>Robert L. Kindie II</i> Robert L. Kindie II ODARF100127CE					
8. Item No.	9. Nomenclature of Item Inspected	10. Drawing, Document, Specification, etc.	11. Revision and Date	12. No. of Items Determined		13. Comments			
				SAT.	UNSAT.				
1	Application	8130-6	5/01	1		Reviewed the application for 1516 for the purpose a standard airworthiness certificate dated 11/05/03.			
2	Aircraft Registry	FAR 47		1		Verified aircraft registry letter dated 8/19/02 for N516GA.			
3	Weight And Balance		Rev. 11 12/01	1		Reviewed the weight and balance dated 10/20/03.			
4	Registration	8050-6	8/19/97	1		Verified the dealer registration issued 12/17/02 expires 12/16/03.			
5	Airworthiness Directives	Airworthiness Directives Listing		1		Reviewed AD'S through the bi-weekly 2003-22. Verified all manufacturing AD's are signed off in log book.			
6	Unapproved Changes To Type Design			1		Reviewed GAC records and found no changes to type design.			
7	Flight Manual		Rev.30 10/11/02	1		Verified the flight manual for the GIV.			
8	Production Flight Card	QAP 9.2	Rev. 5 11/25/02	1		Reviewed the flight card for being complete and found it to be sat.			
9	TC Data Sheet	A12EA	Rev. 26 8/14/03	1		Verified the current rev level to the TC data sheet.			

INSTRUCTIONS

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2. Self-explanatory
3. List the applicant or the manufacturer, or both. (The manufacturer may be the party producing or responsible for the product).
4. List the date the inspection began.
5. List the date the inspection ended.
6. If inspecting an aircraft, list the make, model, N-number, and serial number. For an engine or propeller, list the make, model, and serial number.
7. Aviation safety inspectors must type or print name, sign, and enter office identification. Designees must type or print name, sign, and list their designee identification number.
8. Assign consecutive numbers for each item inspected.
9. List the name or description of the part, appliance, assembly, drawing, document, specification, or name of the process being evaluated.
10. List the technical data that describes the item listed in Block 9, i.e., drawing number, document number, process specification number, etc.
11. List the revision level and date of the technical data described in Block 10.
12. List the number of items that were determined satisfactory or unsatisfactory. Do not record individual characteristics. **NOTE:** (An item is a single article or unit containing one or more dimensional characteristics or features.)
13. Enter comments in this block that will support any information given in Blocks 8 through 12, i.e., unsatisfactory conditions, corrective actions taken, reference to other item numbers listed, serial numbers, type of inspection accomplished, destination of exported products, buyer furnished equipment, parts processed through manufacturer's maintenance facility, part new or newly overhauled, condition of part or assembly, etc.
14. To be used for supplementing items 1-13.

NOTE: Unsatisfactory conditions are corrected in one of two ways:

Method 1: If action is presented to correct an unsatisfactory condition, the action is entered in Block 13 and the number in the UNSAT column of Block 12 is lined through and initialed. The number of items now determined satisfactory is entered in the SAT column next to the corrective action entry.

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14. Continuation Block

Conformity Inspection Record			1. Project Number, TIA/Request Date: Standard Airworthiness Certificate PA1008CE		2. SHEET 2 of 4 Sheets	
3. Applicant/Manufacturer: Gulfstream Aerospace Corporation P.O. Box 2206 Savannah, Ga. 51602			4. Beginning Date: 11/05/03		5. Ending Date: 11/05/03	
6. Model: G-IV SIN 1516 N516GA			7. Inspected By: <i>Robert L. Kindie II</i> Robert L. Kindie II ODARF100127CE			
8. Item No.	9. Nomenclature of Item Inspected	10. Drawing, Document, Specification, etc.	11. Revision and Date	12. No. of Items Determined SAT. UNSAT.	13. Comments	
10	Removal & Installation Records	GA 17	6/99	1	Reviewed R&I Log for being complete and found it to be sat.	
11	Engine And APU Installation	QAT1159PA41300-1C-GIV	Rev. 62 7/23/02	1	Verified the engine and apu installation traveler for being complete. L/H engine s/n 18175 R/H engine s/n 18173 APU s/n P-962.	
12	Final Assy. Aircraft Records					
	Controls	QAT 1159-40000-2-GIV	Rev. 8 2/20/01	1	Reviewed the following the following travelers for being Complete and having Q.C. the quality manual requirements.	
	Engine Build -Up	QAT 1159PA41600-1GIV QAT 1159PA41600-2GIV	Rev. 24 & 25 8/12/02	1		
	Avionics Test 1C	QAT 1159AV41000-TS-GIV	Rev. 11 12/19/02	1		
	Avionics Installation 1C	QAT 1159AV41000-1C-GIV	Rev. 63 1/10/01	1	" "	
13	Flight Test Records					
	First Flight Inspection	QAT 1159-40000-7-GIV	Rev. 11 1/10/01	1	Reviewed the following the following travelers for being Complete and having Q.C. the quality manual requirements.	
	Preflight	QAT 1159-40000- 6-GIV	Rev. 11 1/12/01	1		
	Delivery Inspection	QAT 1159-40000-9-GIV	Rev. 38 5/28/02	1		
	Pack Parts	QAT 1159-40000-18-1-GIV	Rev. 17 10/16/02	1	"	
	Flyaway	QAT 1159F40003-GIV	Rev. 7 1/12/01	1	"	

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14. Continuation Block

Conformity Inspection Record

1. Project Number, TIA/Request Date:

Standard Airworthiness Certificate PA1008CE

2. SHEET 4 of 4 Sheets

3. Applicant/Manufacturer:

Gulfstream Aerospace Corporation P.O. Box 2206 Savannah, Ga. 31602

4. Beginning Date:

11/05/03

5. Ending Date:

11/05/03

6. Model:

G-IV S/N 1516 N516GA

7. Inspected By: _____

Robert L. Kindle II ODARF100127CE

8. Item	9. Nomenclature of Item Inspected
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10. Drawing, Document, Specification, etc.

11. Revision and Date

12. No. of Items Determined

SAT.	UNSAT.
1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	1
9	1
10	1
11	1
12	1
13	1
14	1
15	1
16	1
17	1
18	1
19	1
20	1
21	1
22	1
23	1
24	1
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80	1
81	1
82	1
83	1
84	1
85	1
86	1
87	1
88	1
89	1
90	1
91	1
92	1
93	1
94	1
95	1
96	1
97	1
98	1
99	1
100	1

UNSAT.

UNSAT.

13. Comments

18

Gulfstream Alert

03-51A

1

Verified GAC alert 03-51A was c/w using DMTs.

**B659046, B658701, B658700,
B659056, B658719, B658693,
B658692, B658727.**

19

Condition For Safe Operation

1

— 100 —

Inspected the aircraft for safe operation and found it to be sat.

20

Standard Airworthiness Certificate

8100-2

8/82

1

**Standard Airworthiness
Certificate was issued to aircraft
1516 on 11/05/03.**

21

Logbook Entry

1

Logbook entry was made on 11/05/03 and states that the aircraft has met all the requirements for a standard airworthiness certificate.

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